

Appendix B

Photographs

B1 Brickwork

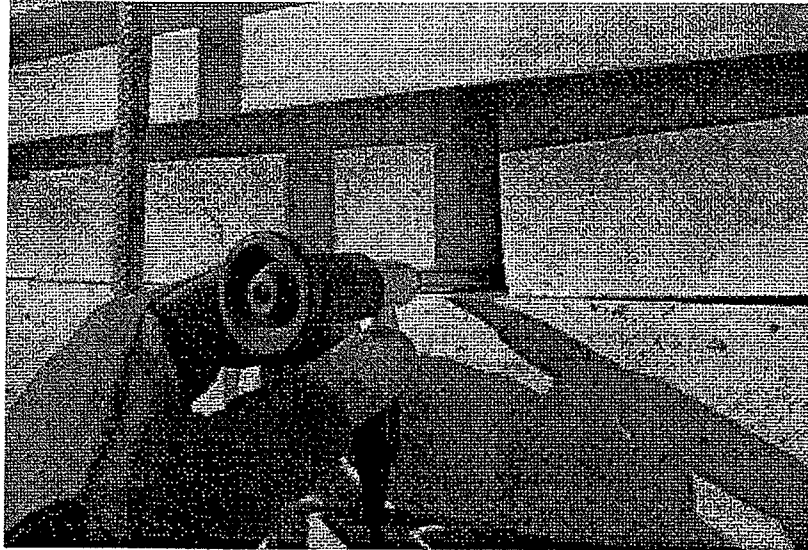


Figure B1-1: Brickwork - Borescope imaging. Not fully eroded mortar bed and dropped bricks to upper course.

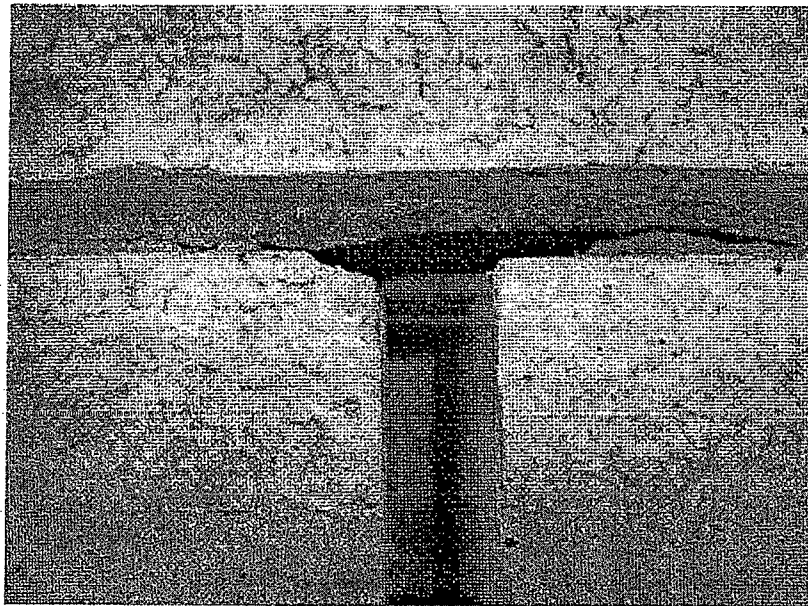


Figure B1-2: Brickwork - Open mortar joints, exposing brick tie in cavity.

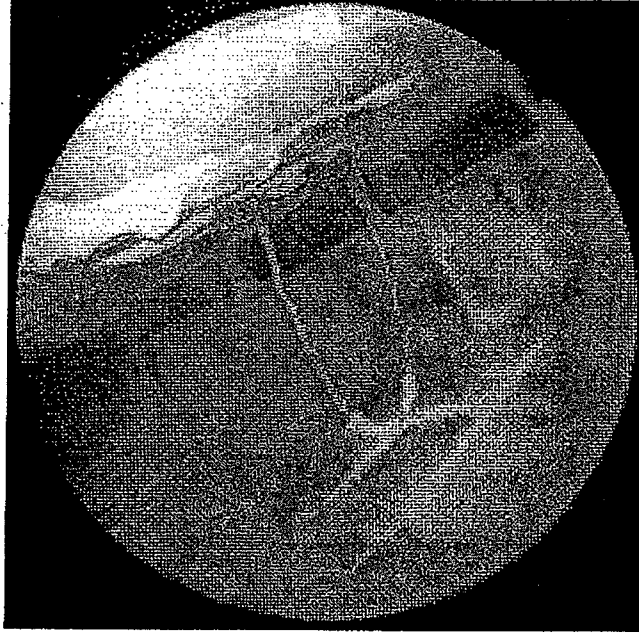


Figure B1-3: Brickwork - Disengaged and corroded brick tie.

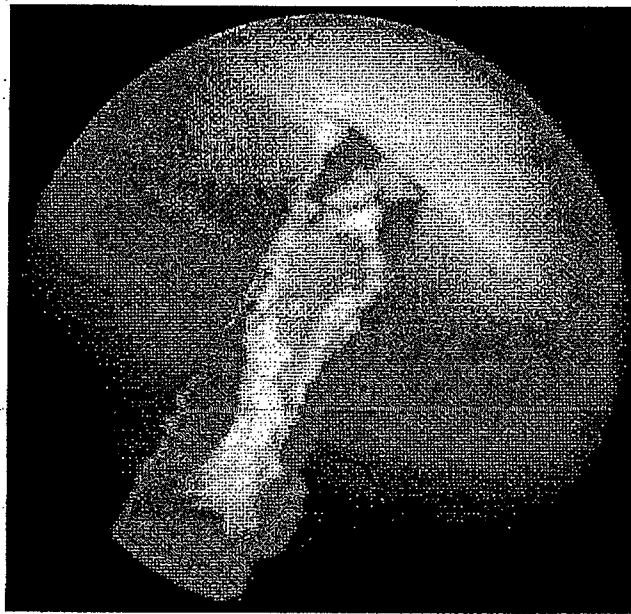


Figure B1-4: Brickwork – Corroded brick tie.

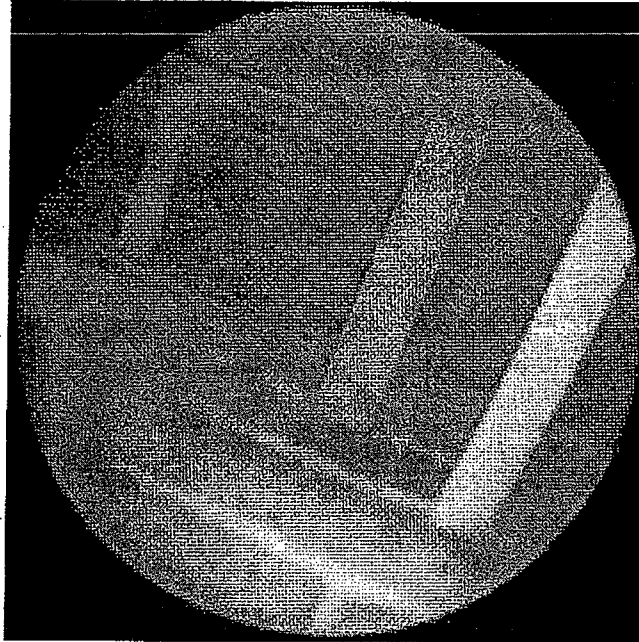


Figure B1-5: Brickwork – Engaged but corroded brick tie fixings.

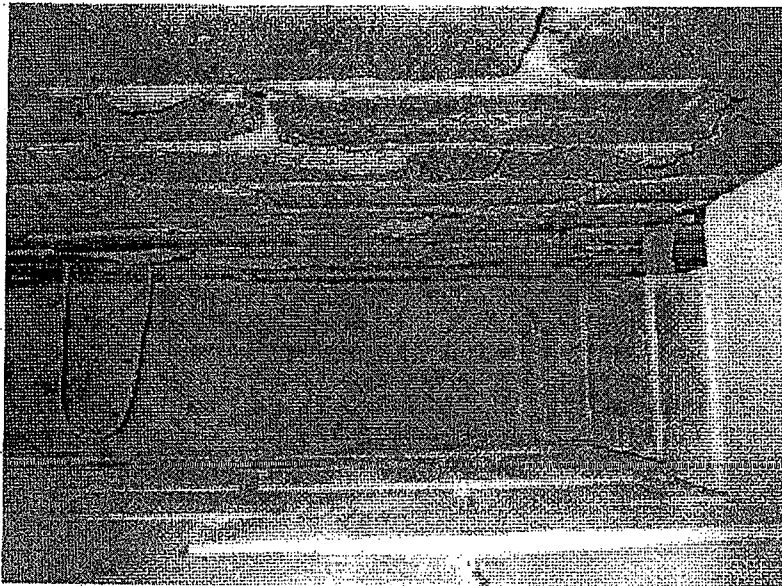


Figure B1-6: Brickwork – Disengaged brick tie. (Note piers are not engaged with external skin of brickwork)

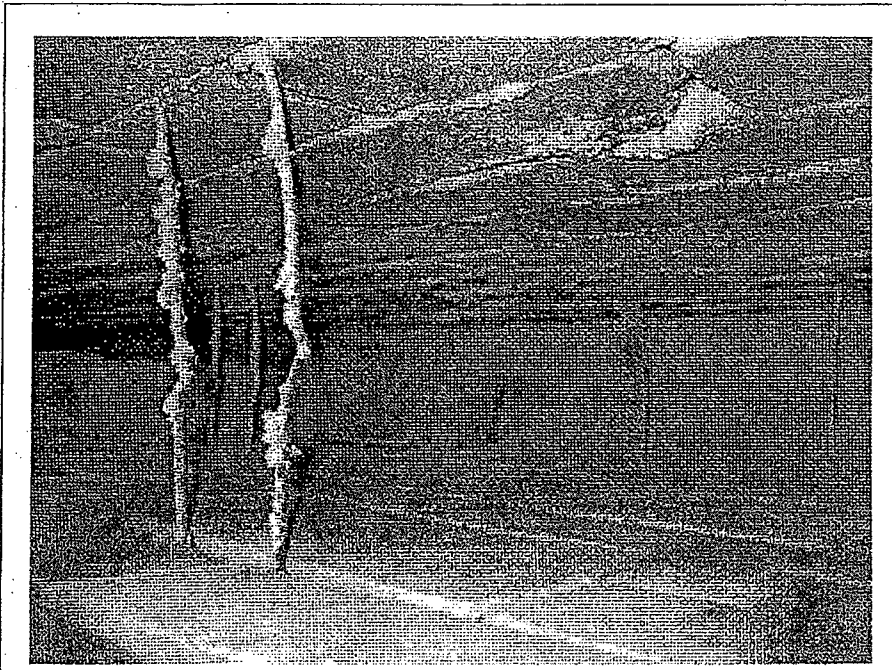


Figure B1-7: Brickwork – Corroded brick tie.

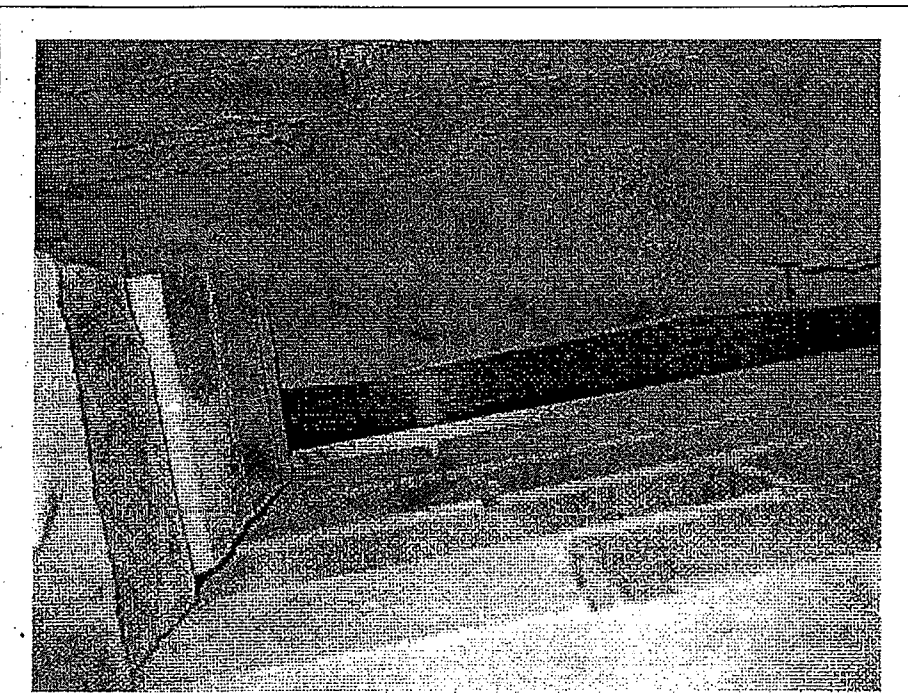


Figure B1-8: Brickwork – Disengaged brickwork pier.

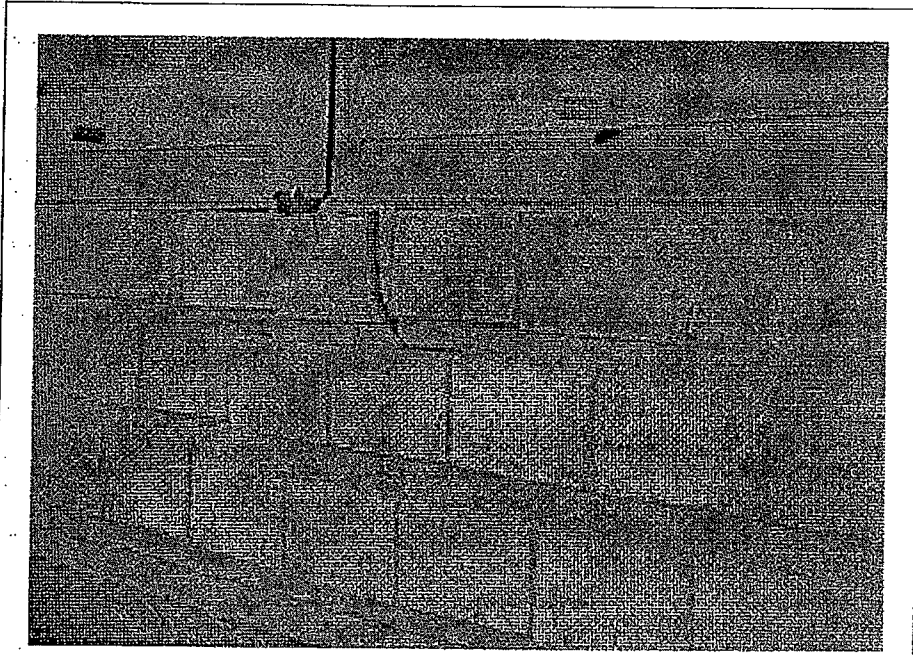


Figure B1-9: Brickwork – Fractured and displaced brick due to corrosion of embedded window fixings on the northern wing.

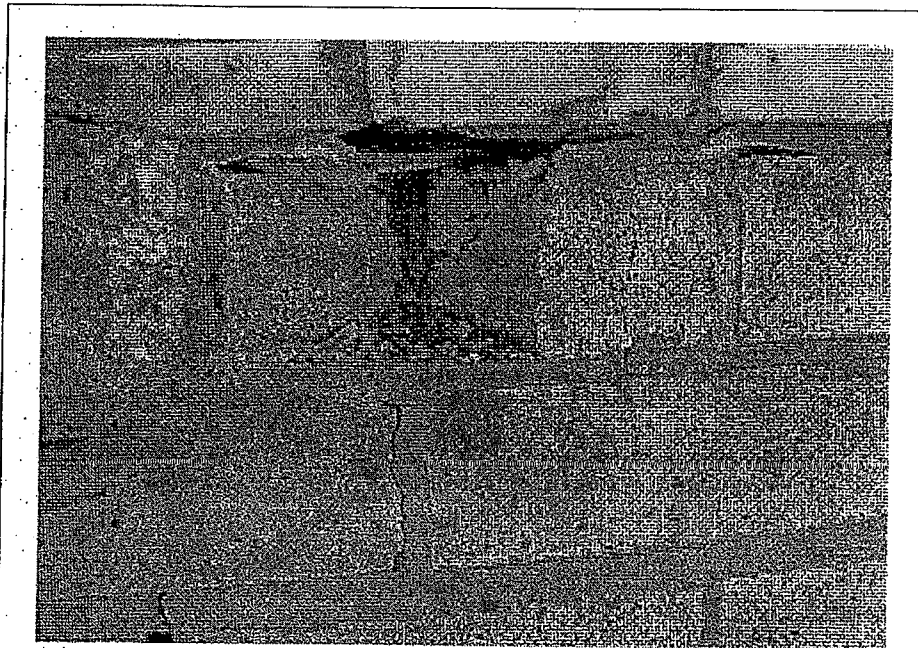


Figure B1-10: Brickwork – Fractured brick due to corrosion of window fixings on the northern wing.

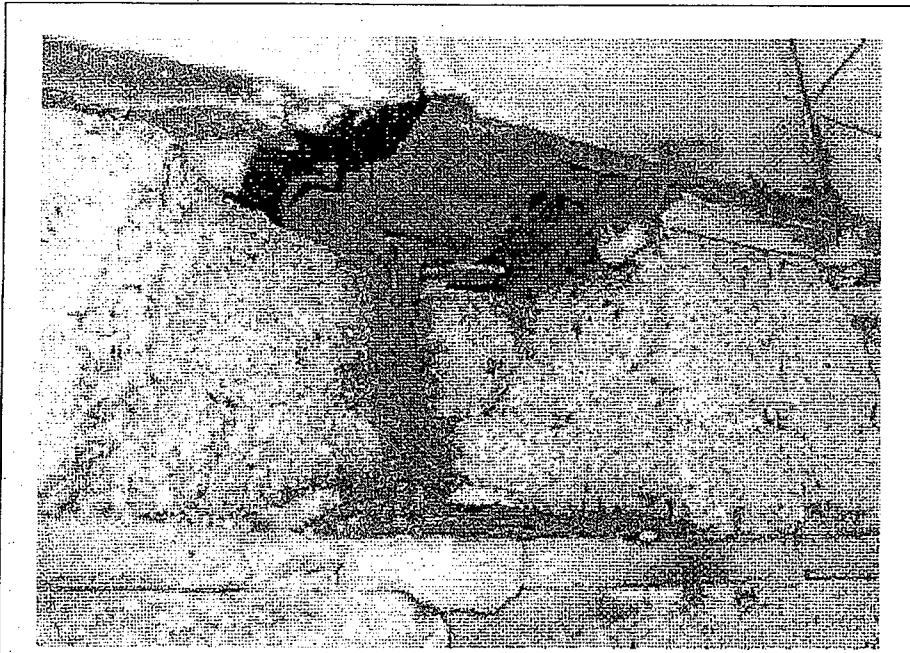


Figure B1-11: Brickwork – Fractured Brick due to corrosion of window fixings and bracket on the northern wing.

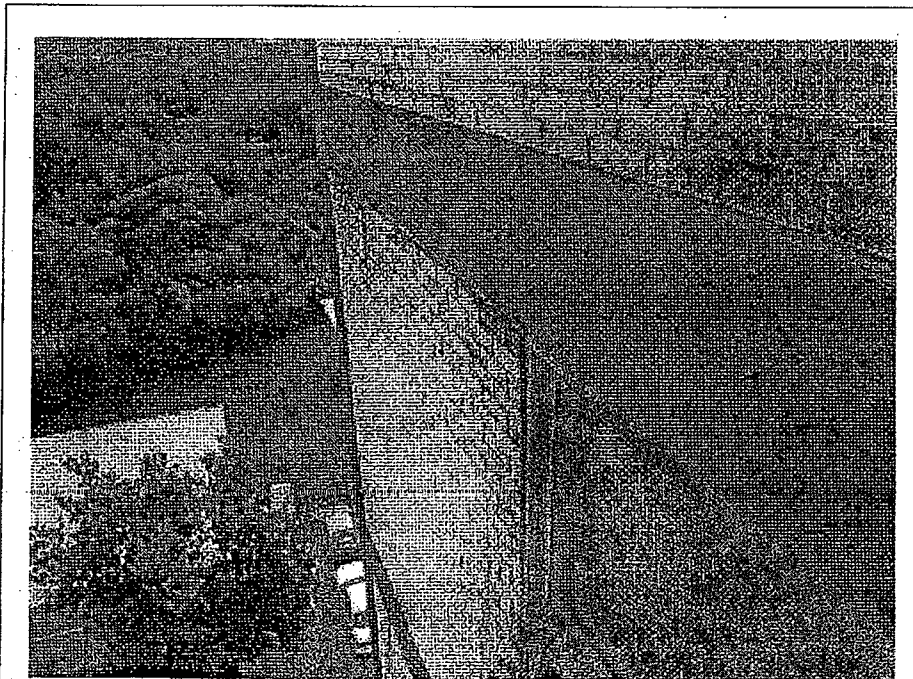


Figure B1-12: Brickwork – Brickwork panel exhibiting corner “peeling” on the western elevation of the northern wing.

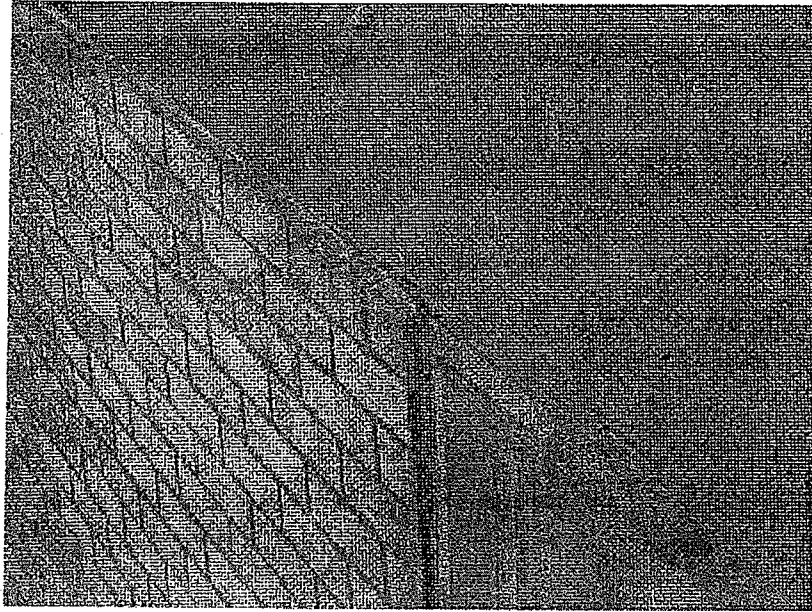


Figure B1-13 (Close up of Figure B1-12): Brickwork – Brickwork panel experiencing corner “peeling” on the western elevation of the northern wing.

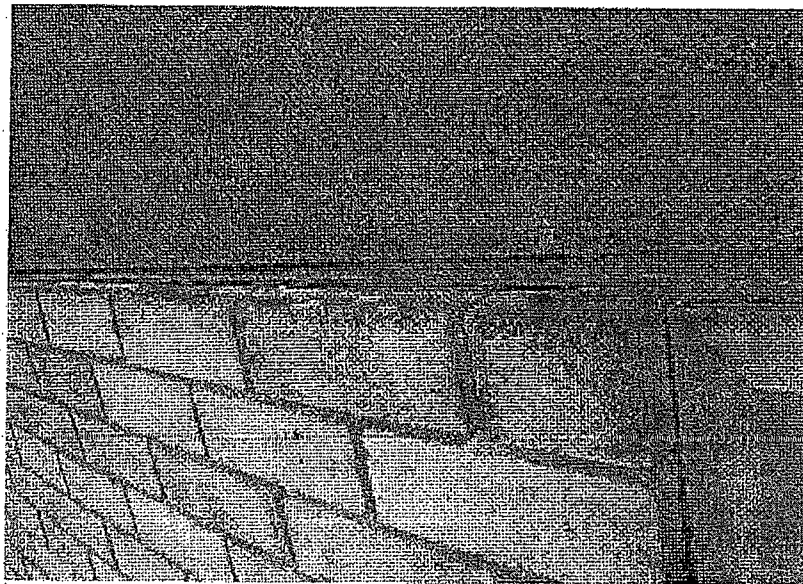


Figure B1-14 (Close up of Figure B1-12): Brickwork – Brickwork panel experiencing corner “peeling” on the western elevation of the northern wing.



Figure B1-15: Brickwork – Gradual leaning and peeling of brickwork panel. Ground level, northwest corner of west wing.

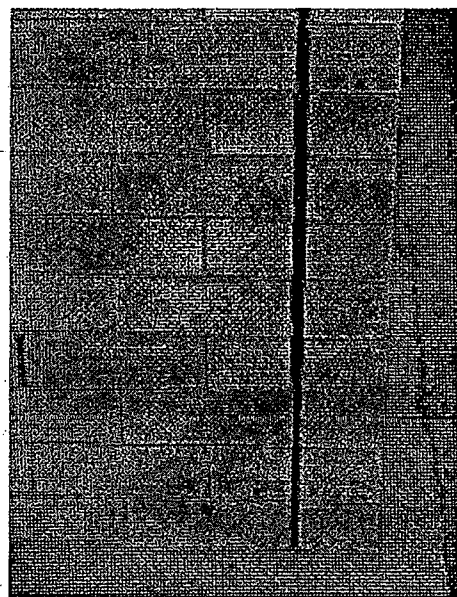


Figure B1-16: Brickwork – Gradual leaning and peeling of brickwork panel.

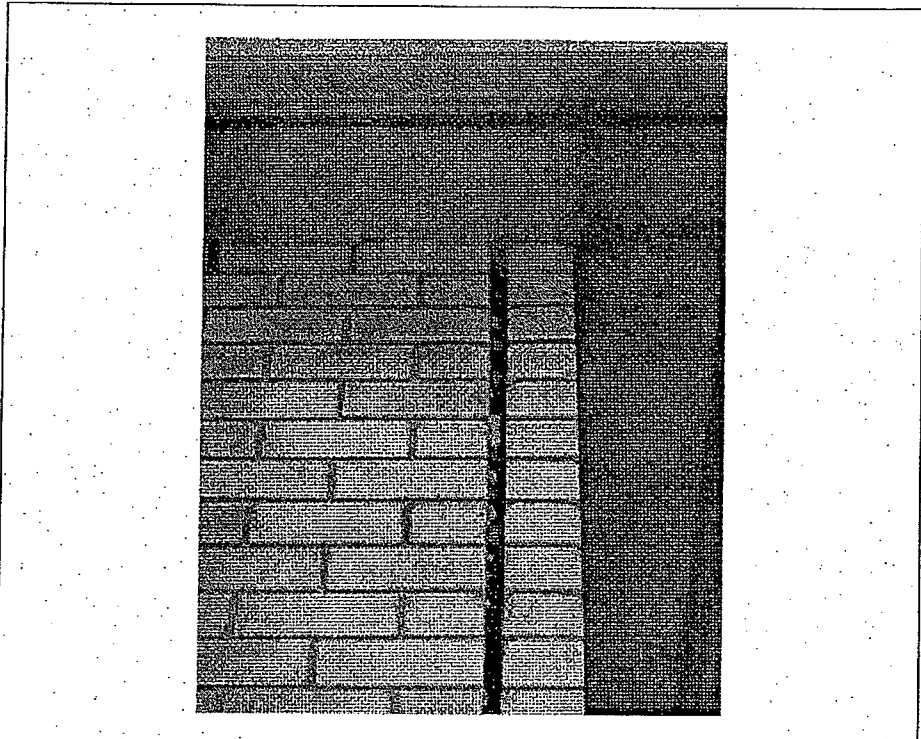


Figure B1-17: Brickwork – Gradual leaning and peeling of brickwork panel.

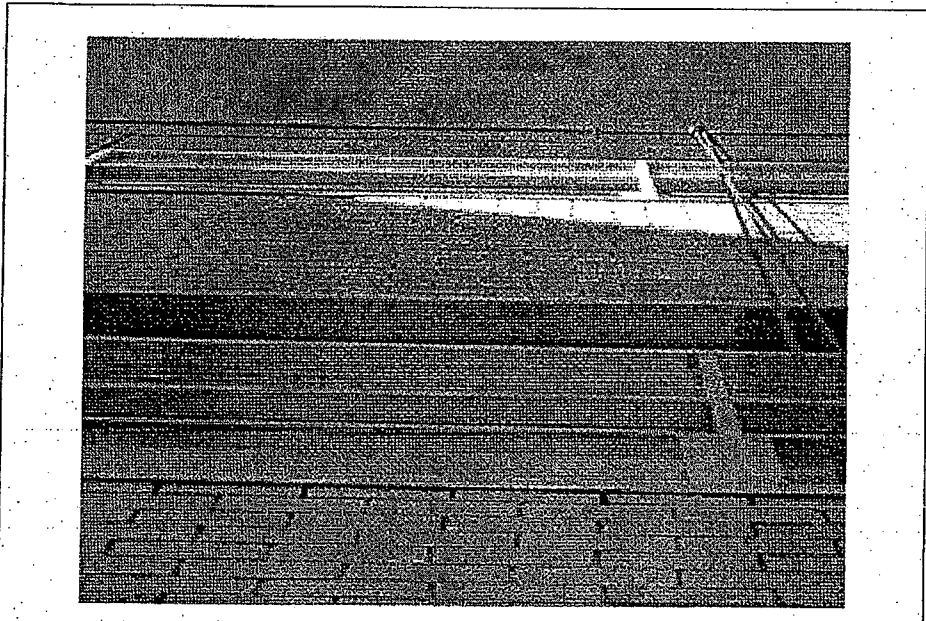


Figure B1-18: Brickwork – Some Displaced brickwork joints are due to loss of mortar. Some misalignment due to original placement.

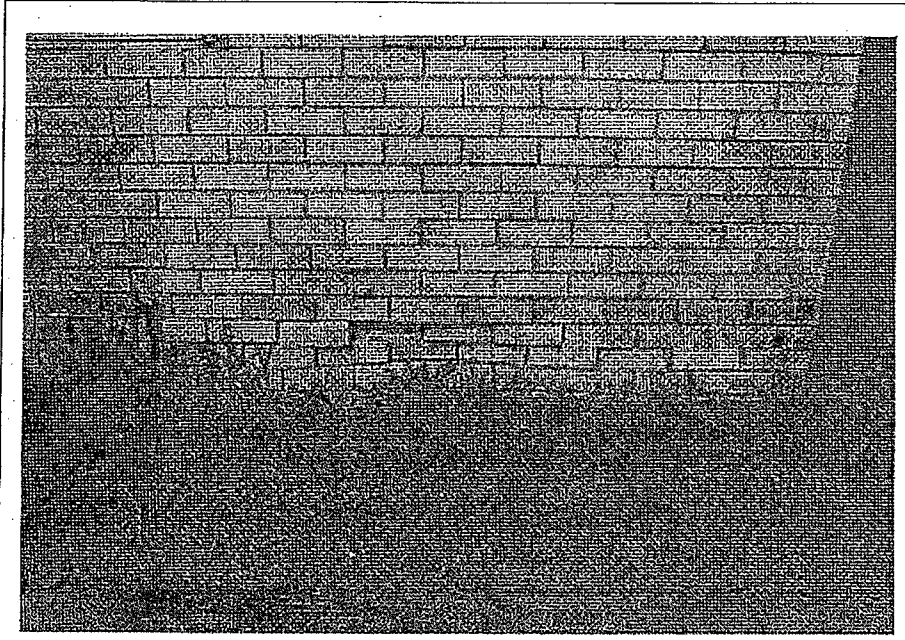


Figure B1-19: Brickwork – Localised displacement of brickwork due to loss of mortar and impact loads on the northern wing.



Figure B1-20: Brickwork – Displacement of brickworks due to loss of mortar and impact loads on the northern wing.

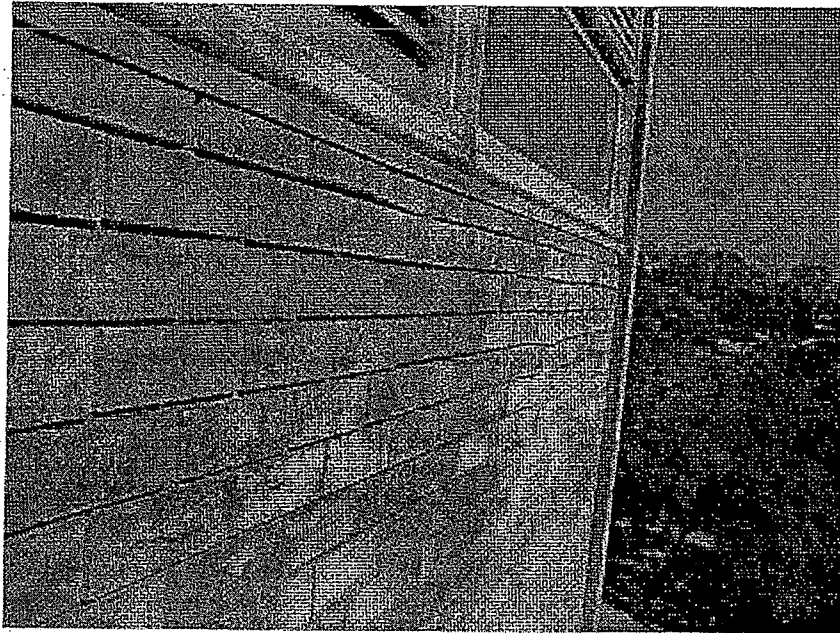


Figure B1-21: Brickworks – Stained and displaced brickwork.



Figure B1-22: Brickwork – Inadequate silicone application to brickwork mortar joints.

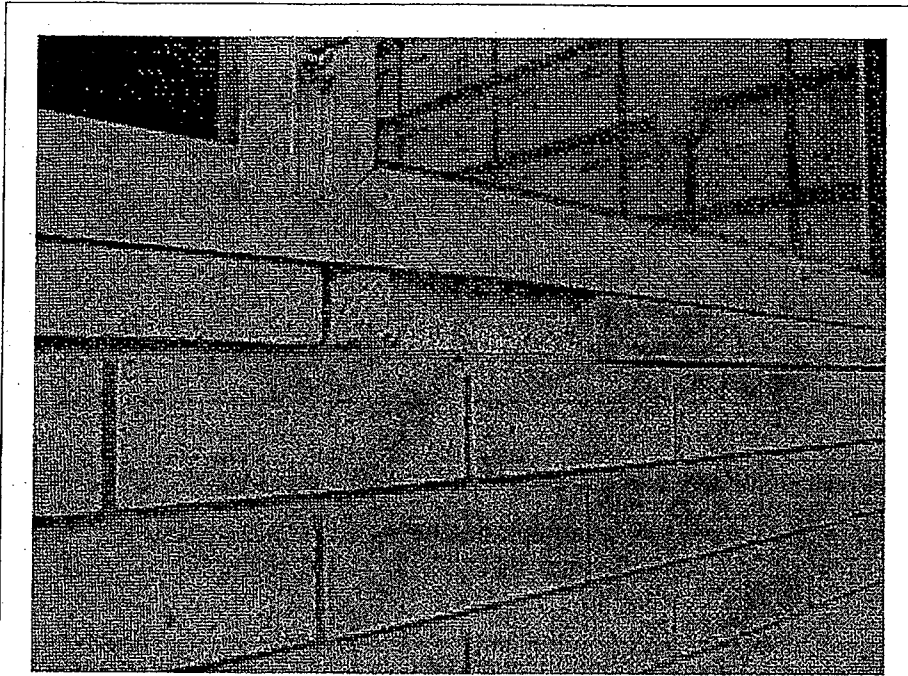


Figure B1-23: Brickworks – Surface erosion of brickwork (fretting).



Figure B1-24: Brickworks – Surface erosion of brickwork (fretting).



Figure B1-25: Brickworks – Erosion of mortar resulting in brickwork displacement and loss of structural integrity.

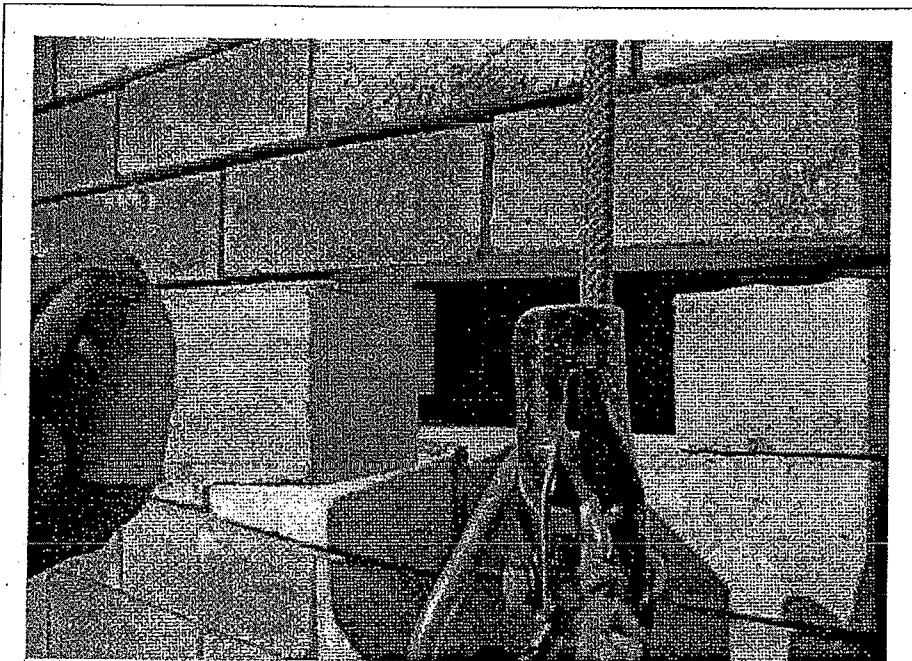


Figure B1-26: Brickworks – Erosion of mortar resulting in brickwork displacement and loss of structural integrity.

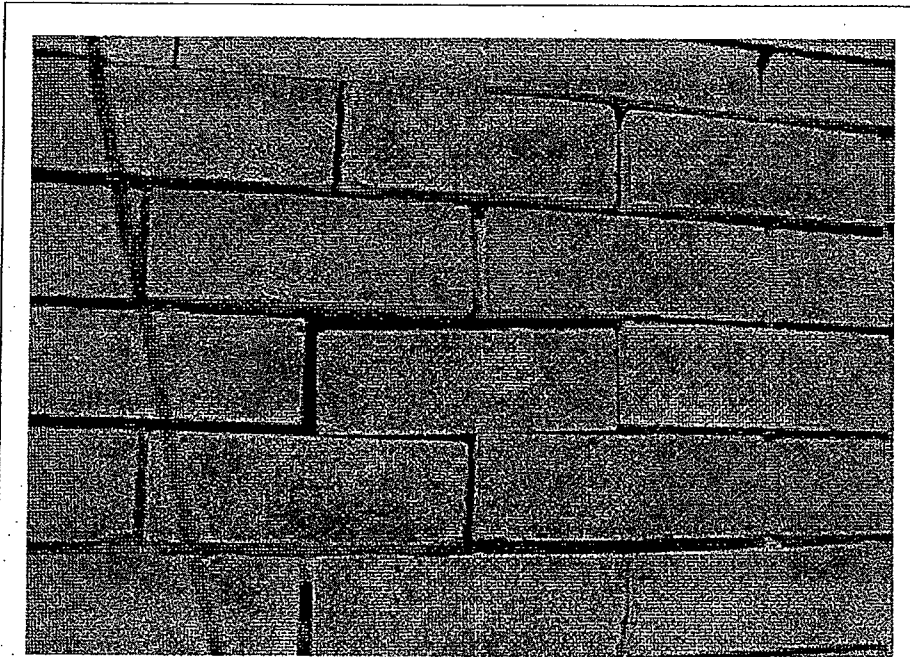


Figure B1-27: Brickworks – Erosion of mortar resulting in brickwork displacement and loss of structural integrity.

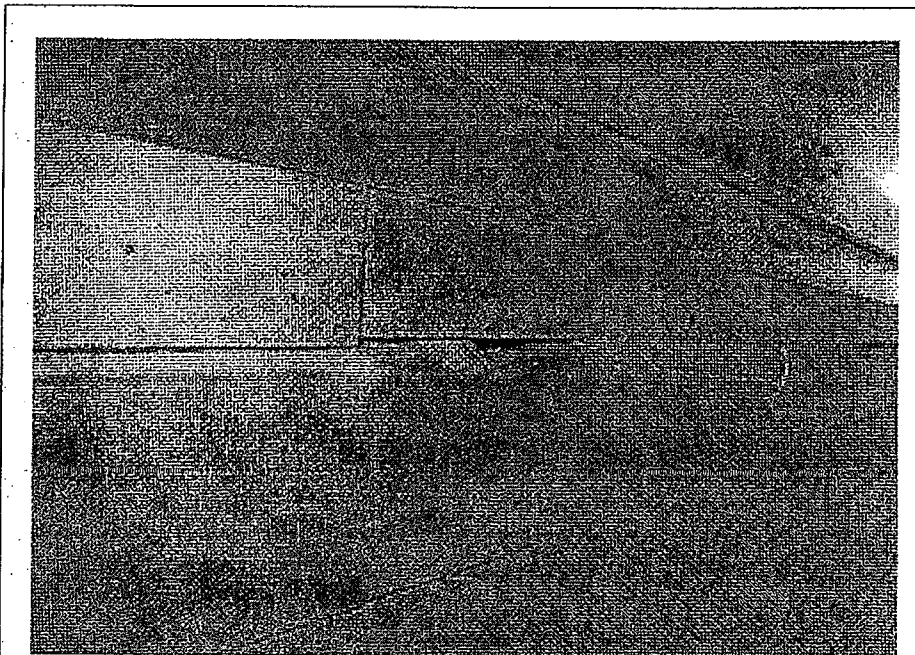


Figure B1-28: Brickworks – Erosion of mortar bedding in eastern elevation of the northern wing.

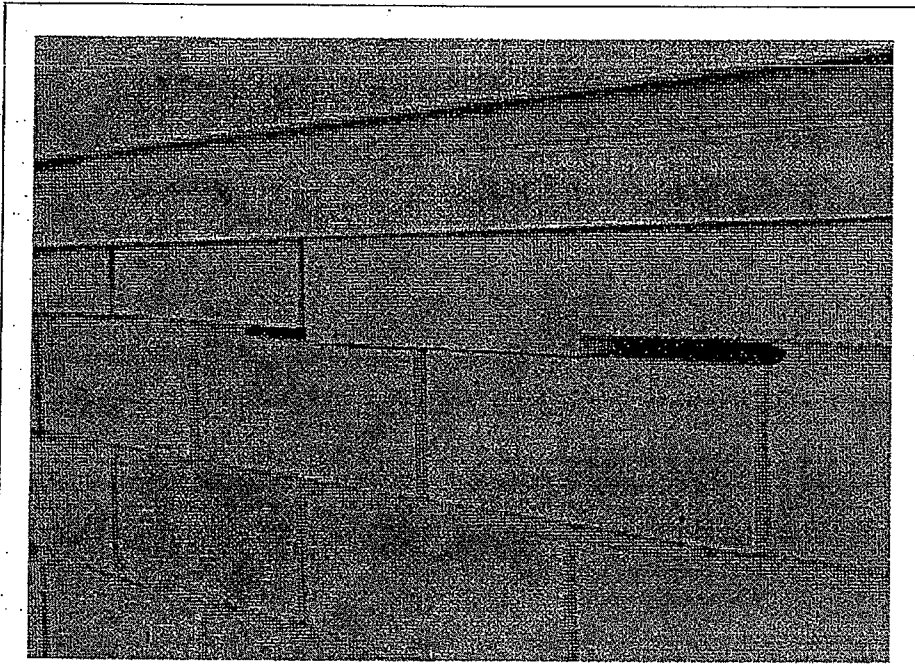


Figure B1-29: Brickworks – Erosion of mortar resulting in brickwork displacement.

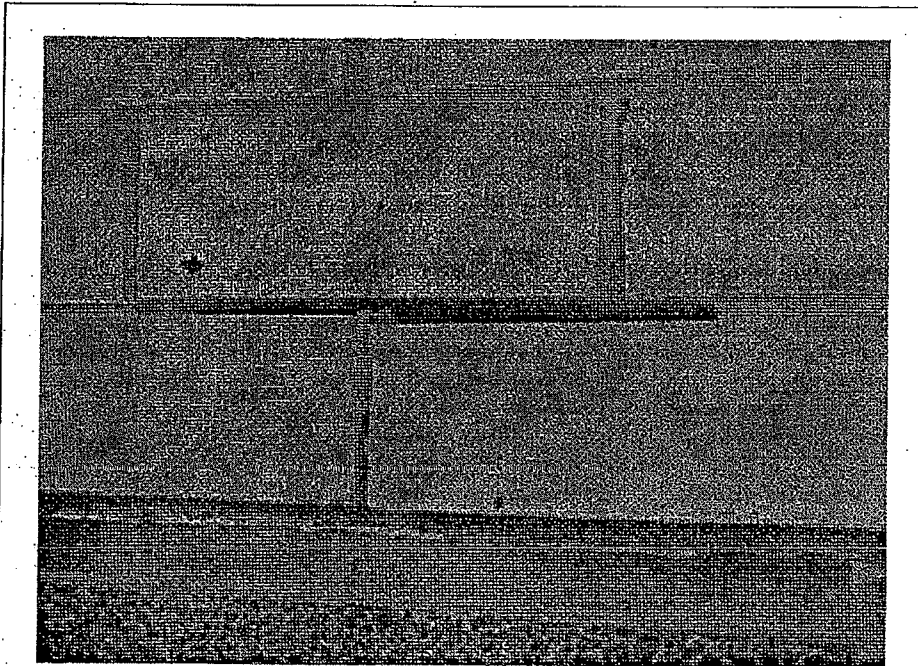


Figure B1-30: Brickworks – Erosion of mortar which could result in brickwork displacement.

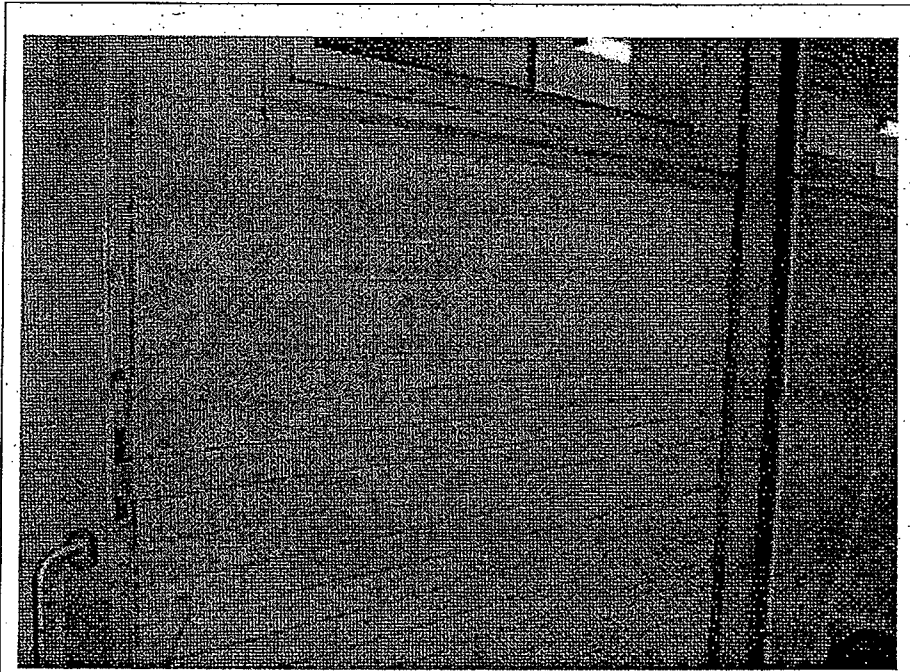


Figure B1-31: Brickwork – Repaired brickwork section.

B2 Windows and Louvres

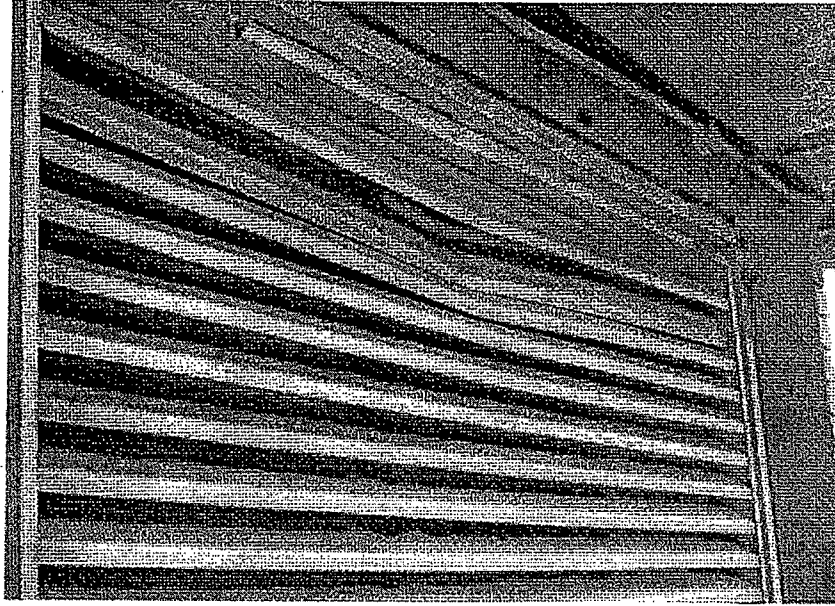


Figure B2-1: Windows and Louvres – Damaged louvre blades.



Figure B2-2: Windows and Louvres – Pitted edges and dislodged louvre fixings.



Figure B2-3: Windows and Louvres – Louvre/Window framing detachment from concrete structure and surface corrosion of louvres.

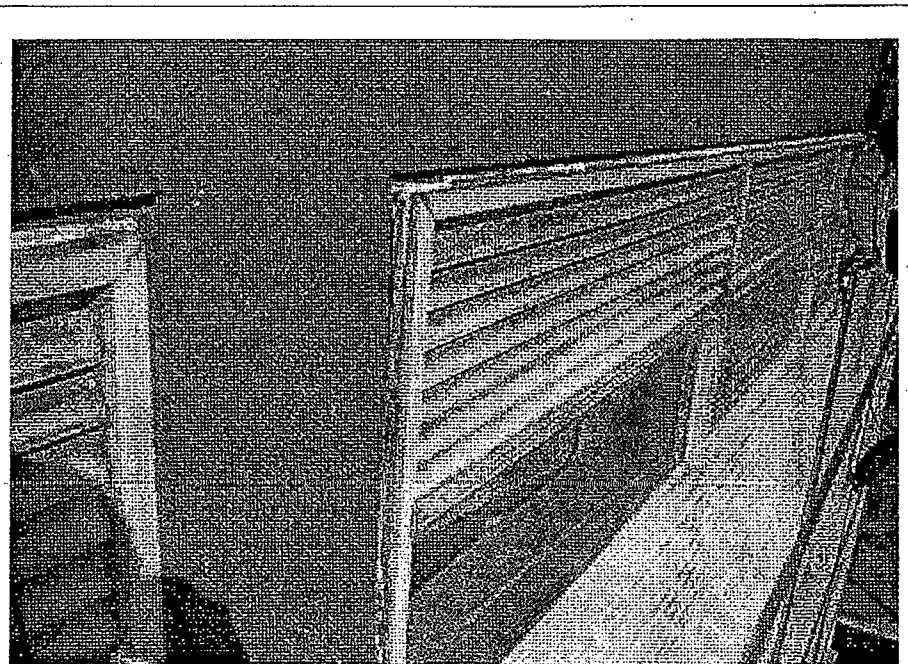


Figure B2-4: Windows and Louvres – Louvre/Window framing detachment from concrete structure and surface corrosion of louvres.

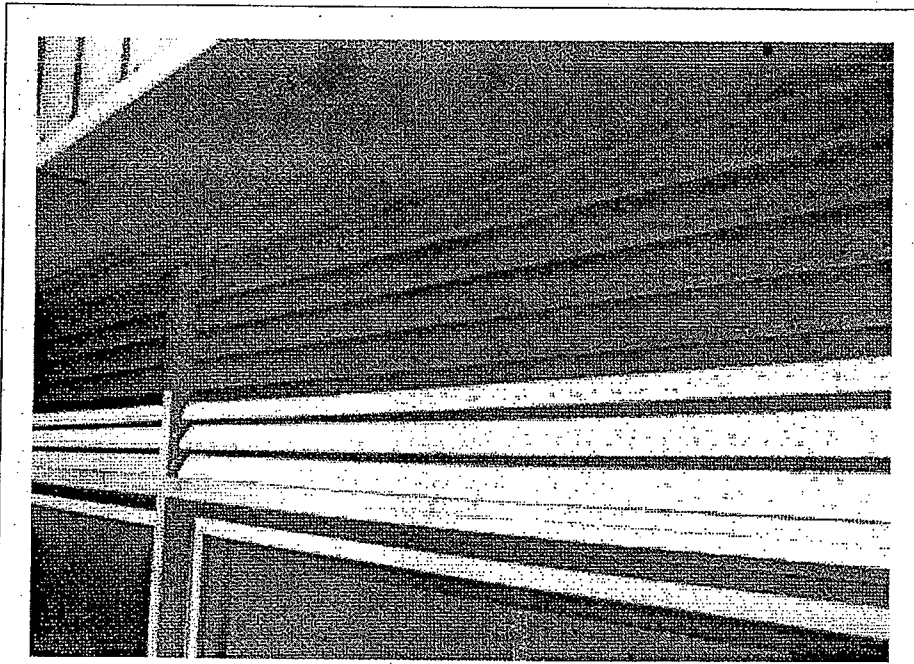


Figure B2-5: Windows and Louvres – Surface corrosion of the louvres and corrosion of mild steel louvre fixings.

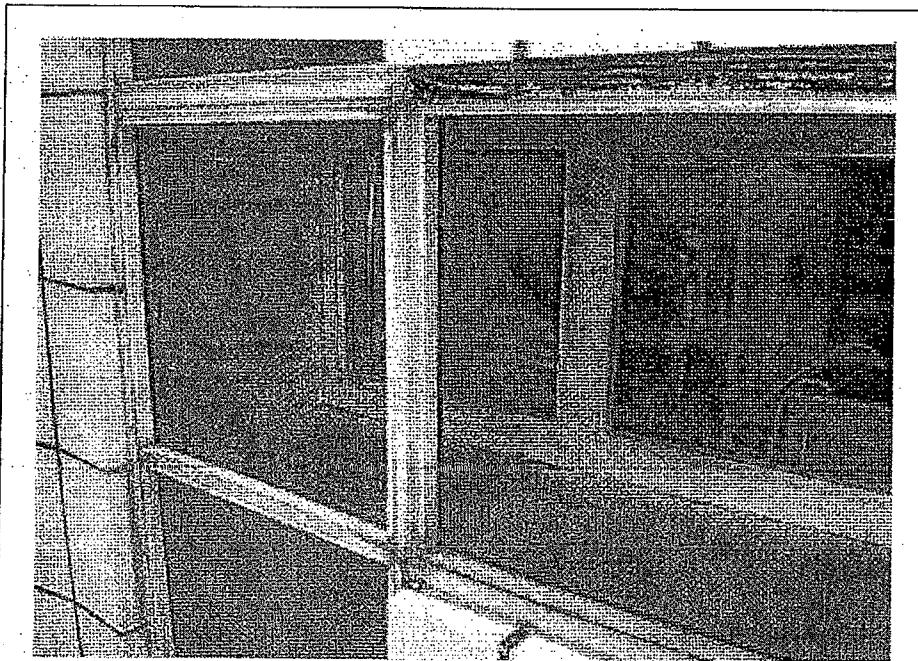


Figure B2-6: Windows and Louvres – Surface corrosion of window framing.

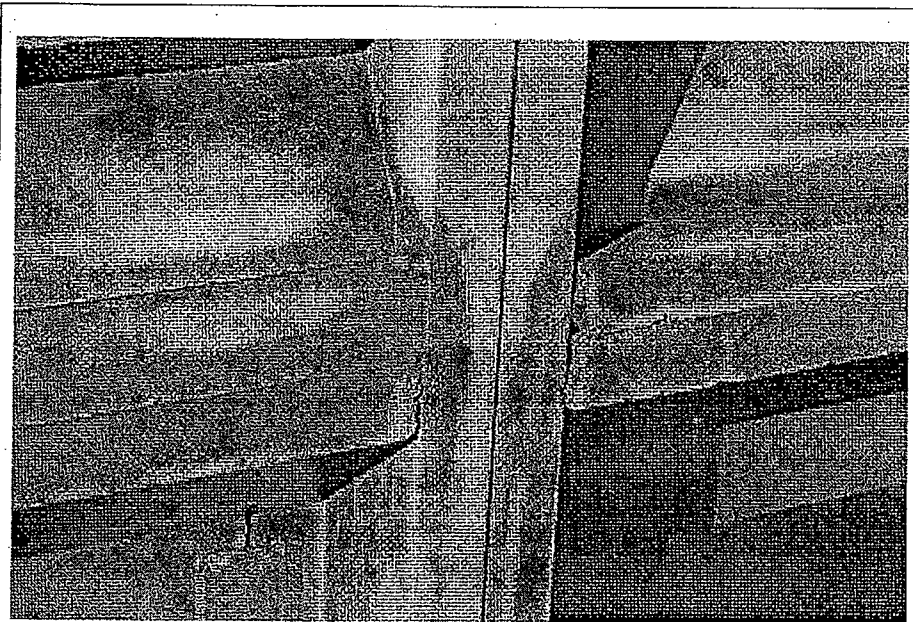


Figure B2-7: Windows and Louvres – Surface corrosion of window framing showing localised corrosion (pitting) at joints.

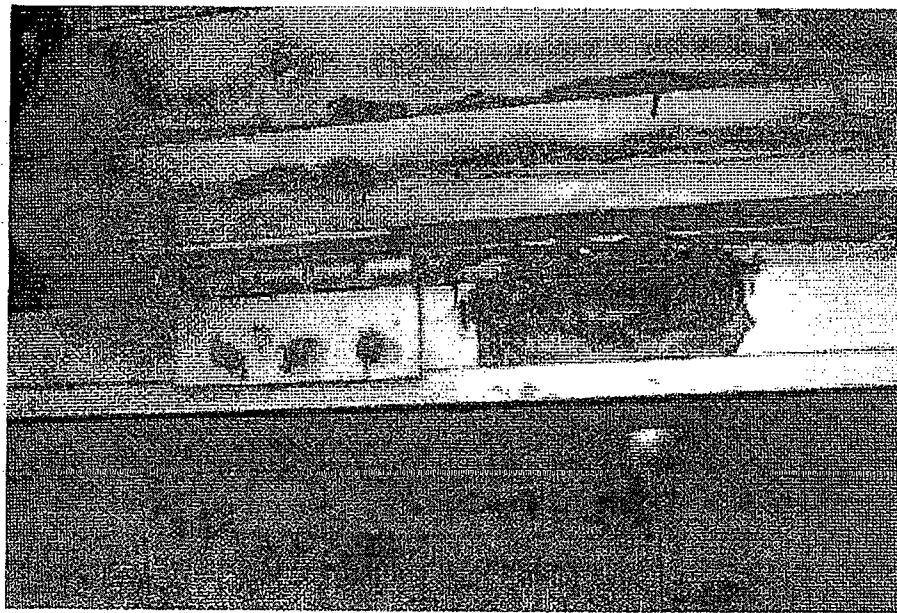


Figure B2-8: Windows and Louvres – Corrosion of window hinges fixings.

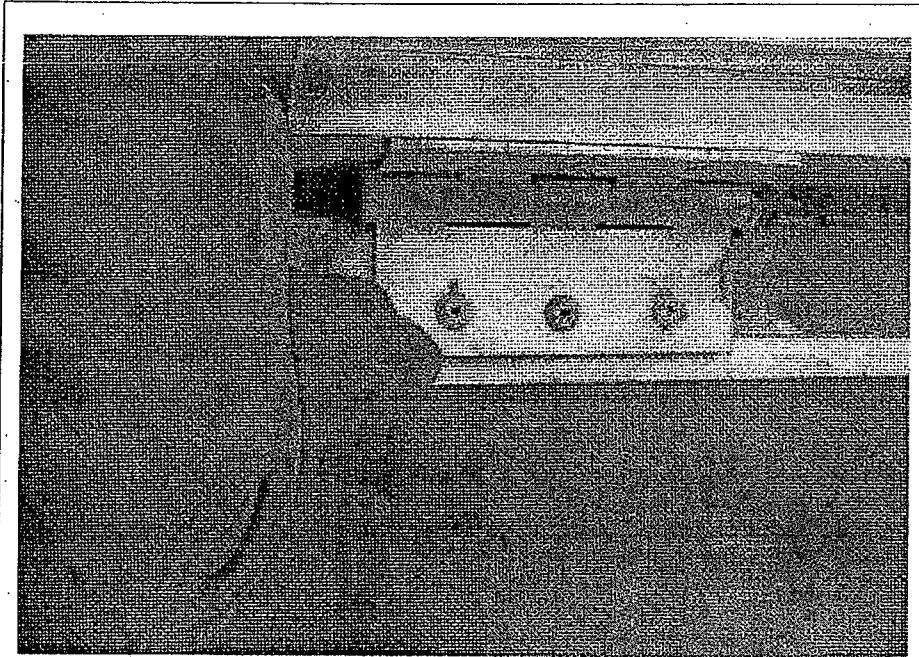


Figure B2-9: Windows and Louvres – Corroded window hinge fixings.



Figure B2-10: Windows and Louvres – Corrosion and missing window hinge screws.

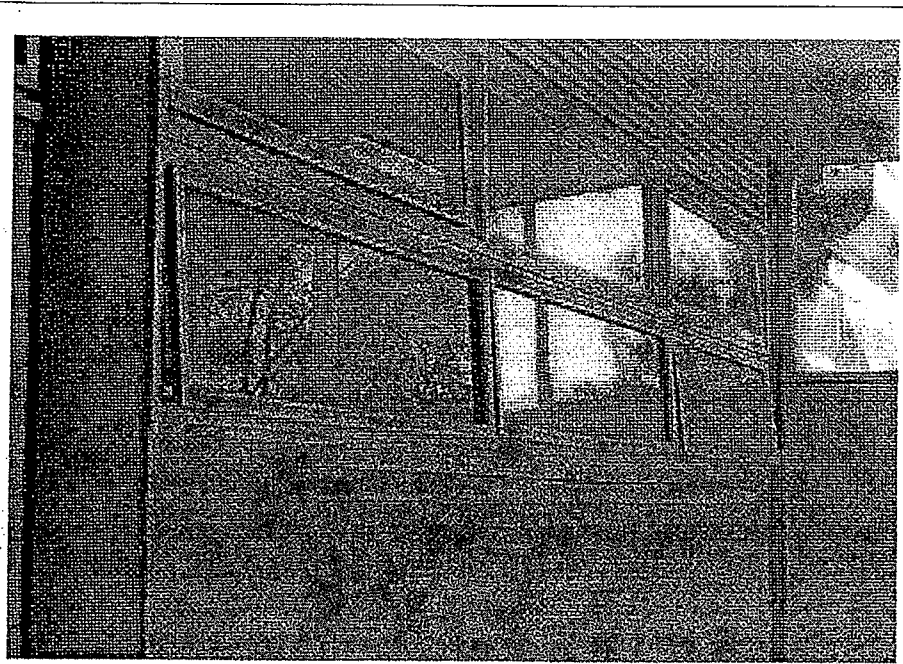


Figure B2-11: Windows and Louvres – Sagging of window framing on the northern wing.



Figure B2-12: Windows and Louvres – Glazing film deterioration on new window panels on western wing.



Figure B2-13: Windows and Louvres – Glazing film deterioration on new window panels on western wing.

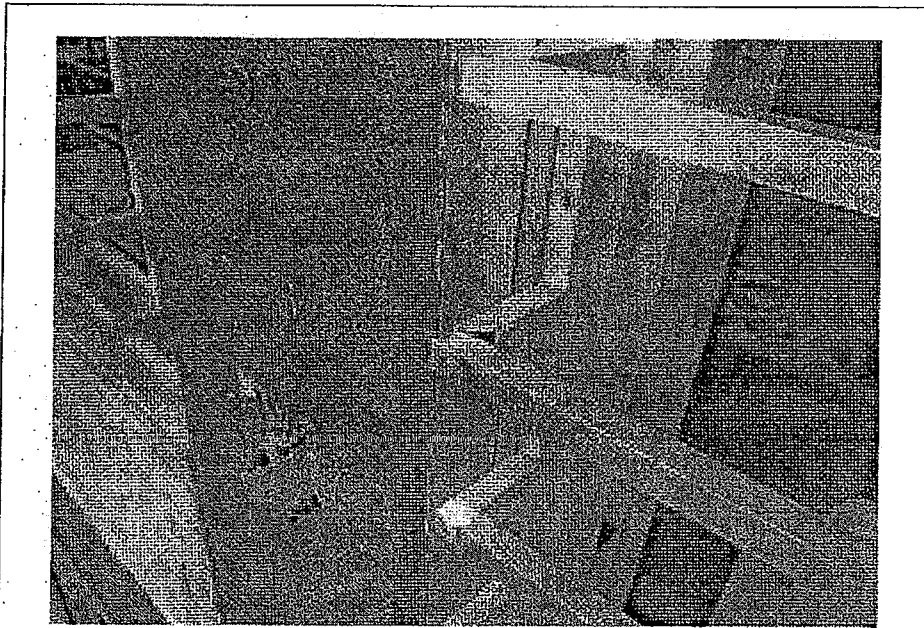


Figure B2-14: Windows and Louvres – Corrosion and failure of new window fall protection.

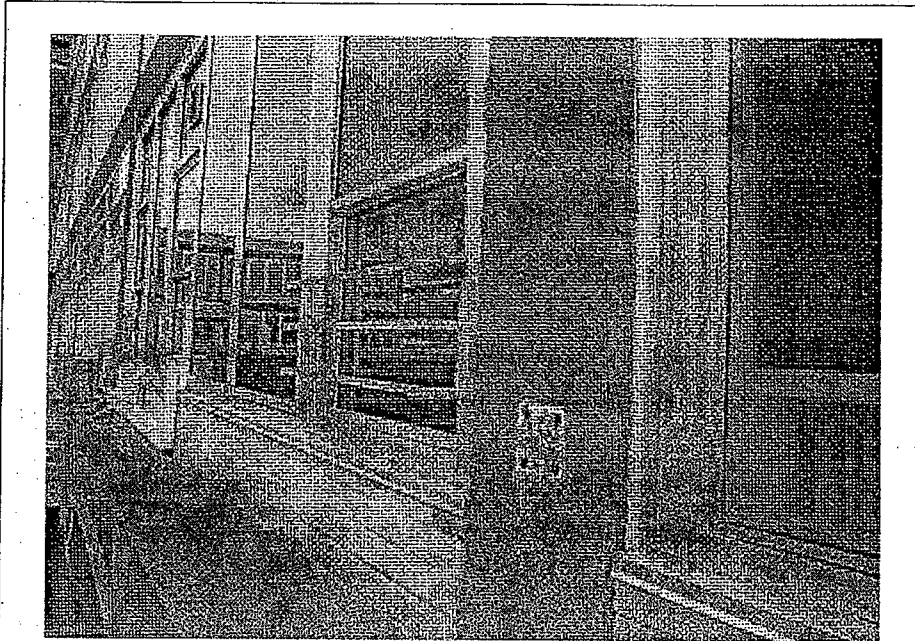


Figure B2-15: Windows and Louvres – Missing window fall protection.

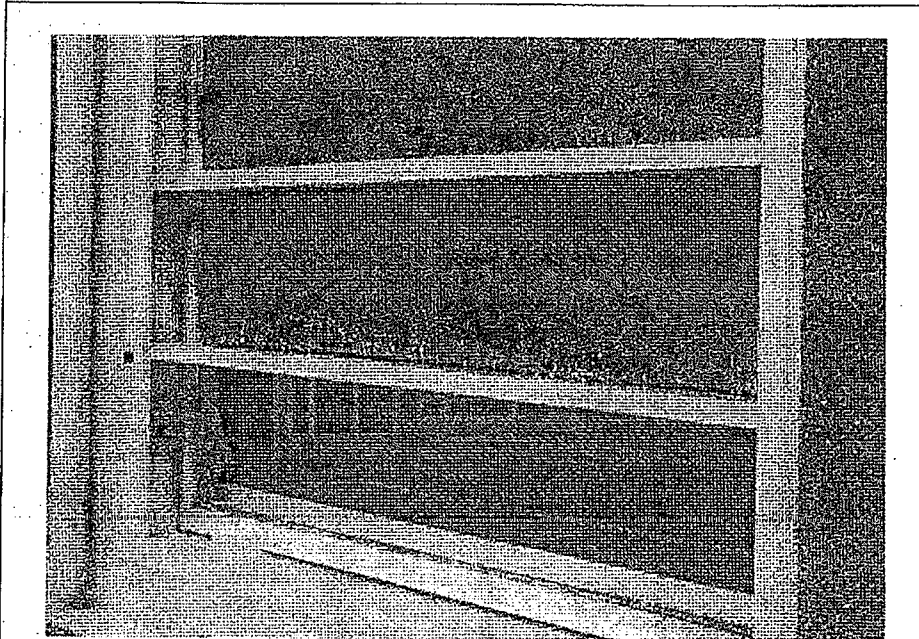


Figure B2-16: Windows and Louvres – Non-functional and damaged fly screen protection on new window systems.

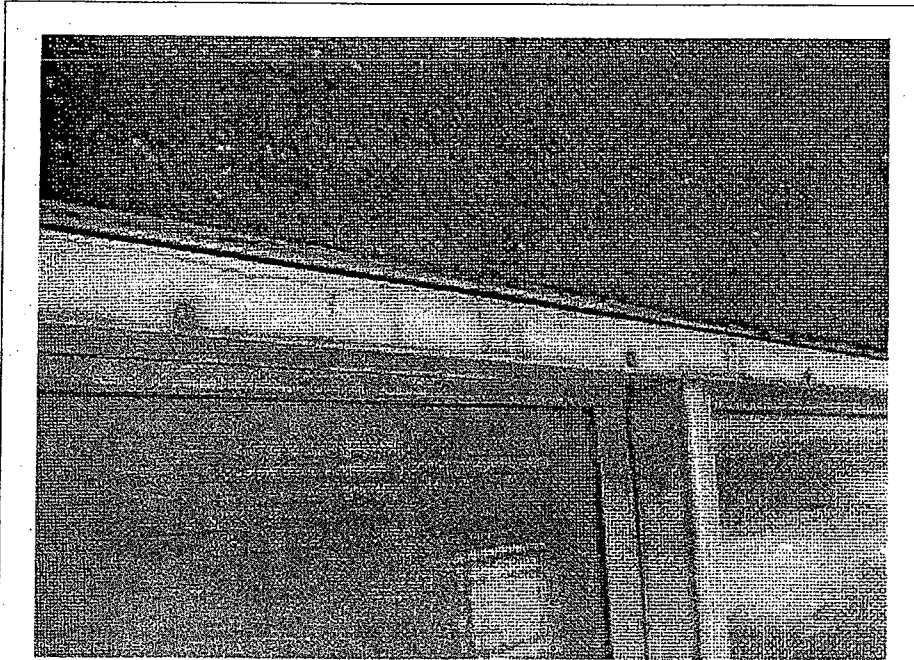


Figure B2-17: Windows and Louvres– Excessive movement on curtain wall stair windows when pushed by hand.

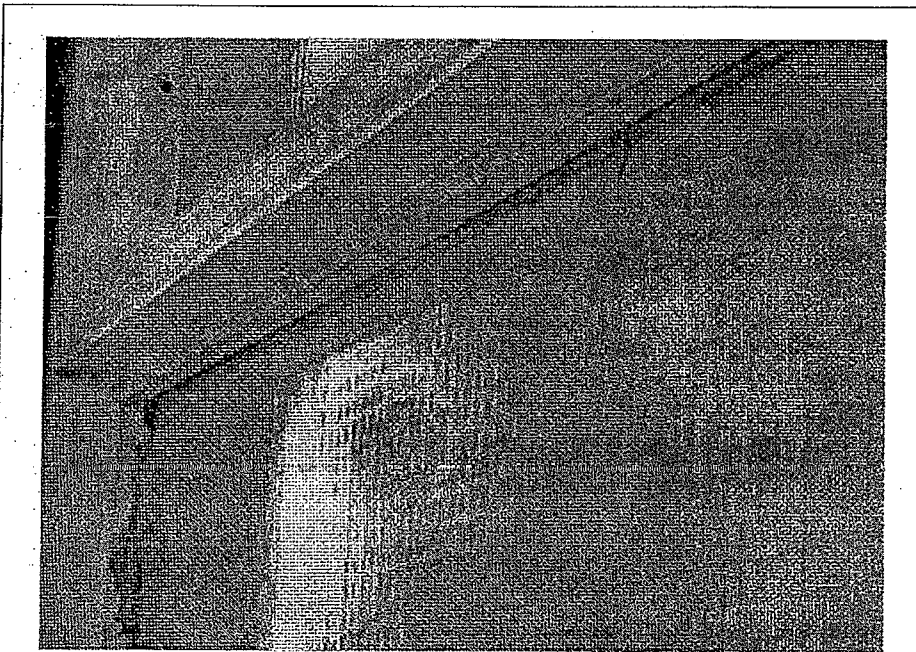


Figure B2-18: Windows and Louvres– Excessive movement on curtain wall stair windows when pushed by hand.

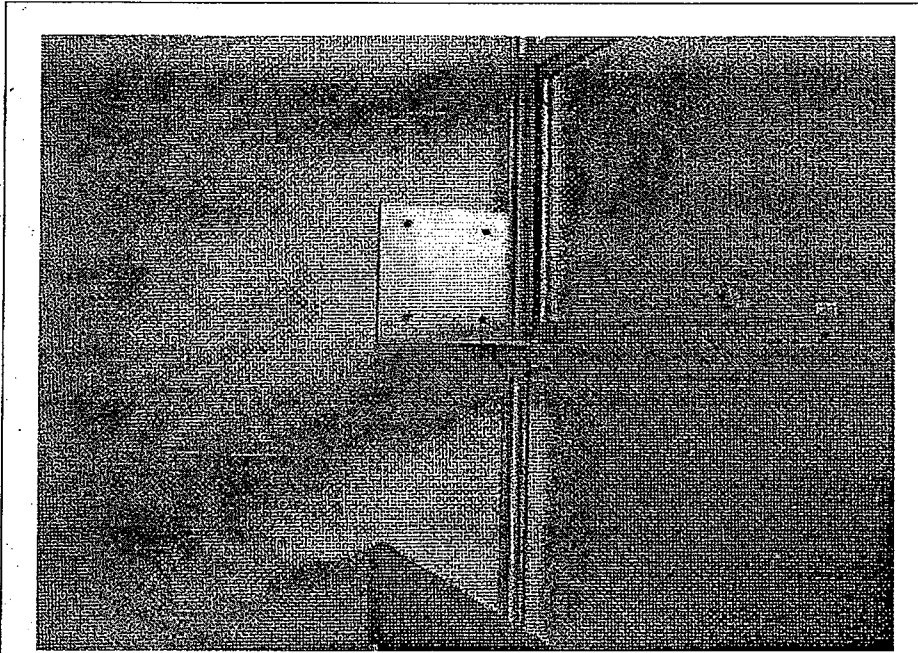


Figure B2-19: Windows and Louvres –Bracket at landing on curtain wall stair windows.



Figure B2-20: Windows and Louvres – Displaced trims on curtain wall stairs windows.

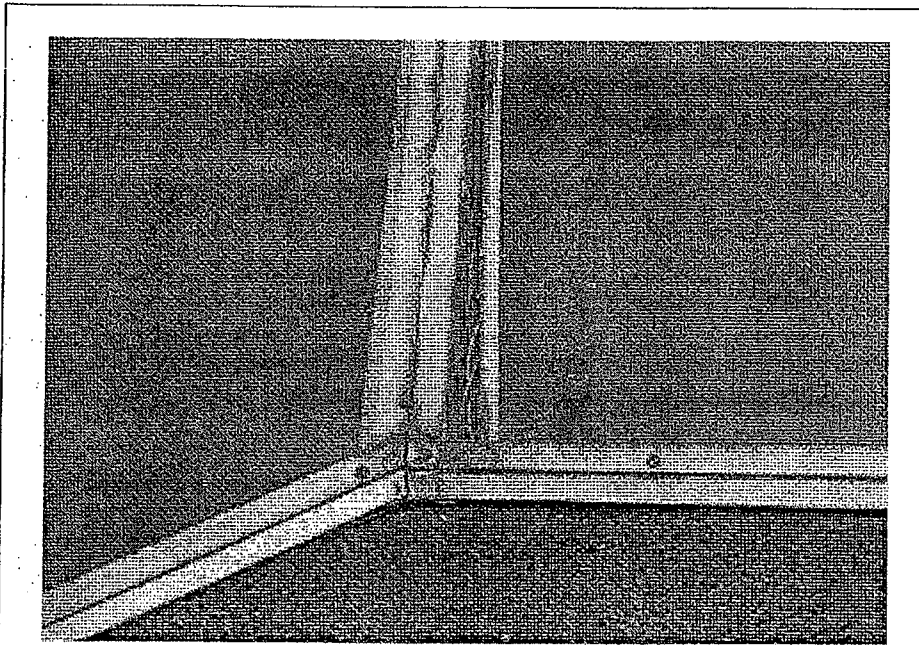


Figure B2-21: Windows and Louvres – Displaced trims on curtain wall stairs windows.

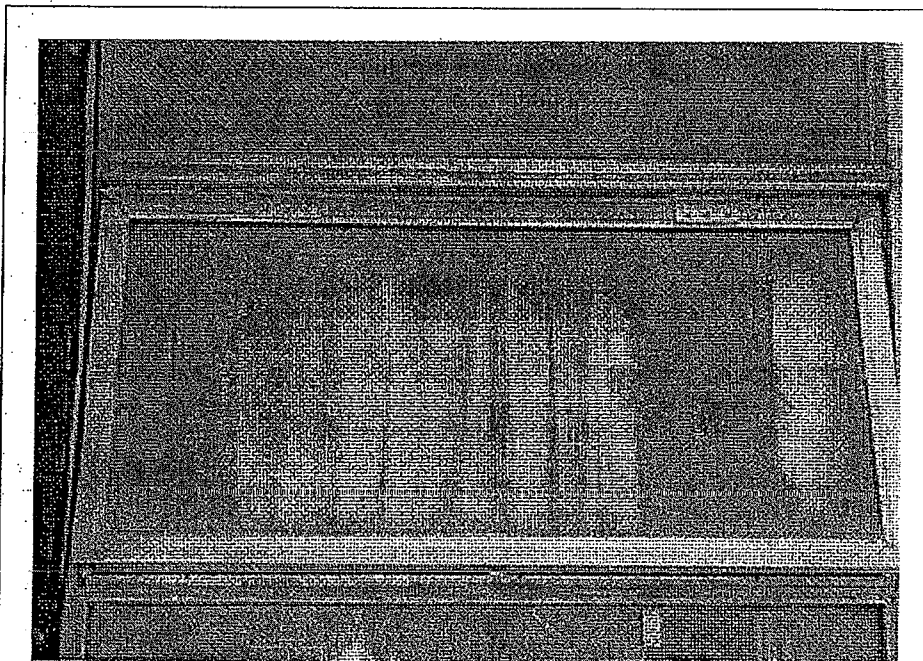


Figure B2-22: Windows and Louvres – Corroding hinge fittings on curtain wall tower windows.

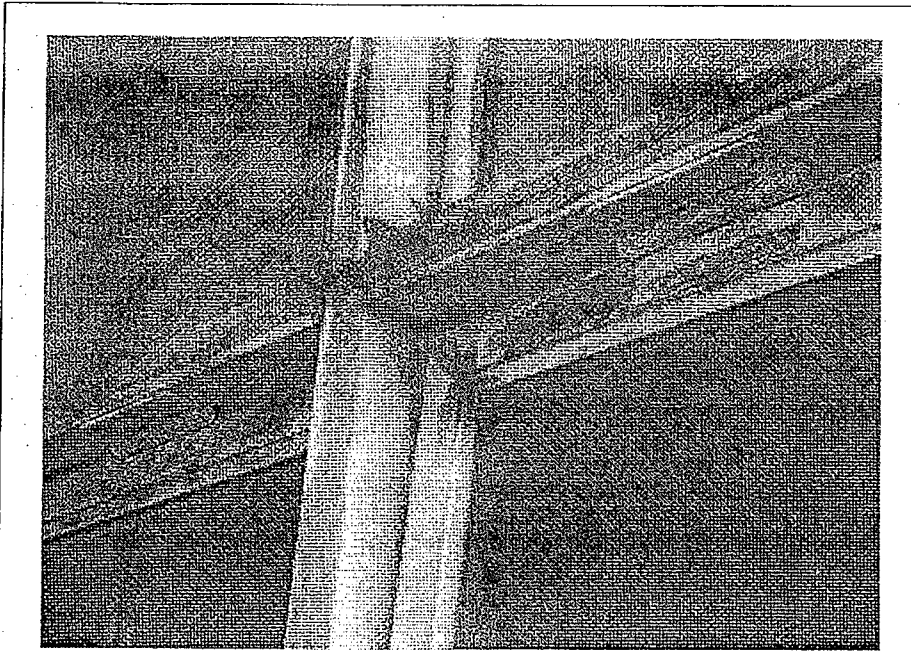


Figure B2-23: Windows and Louvres – Corroding hinge fittings on curtain wall tower windows. Note excessive use of silicone.

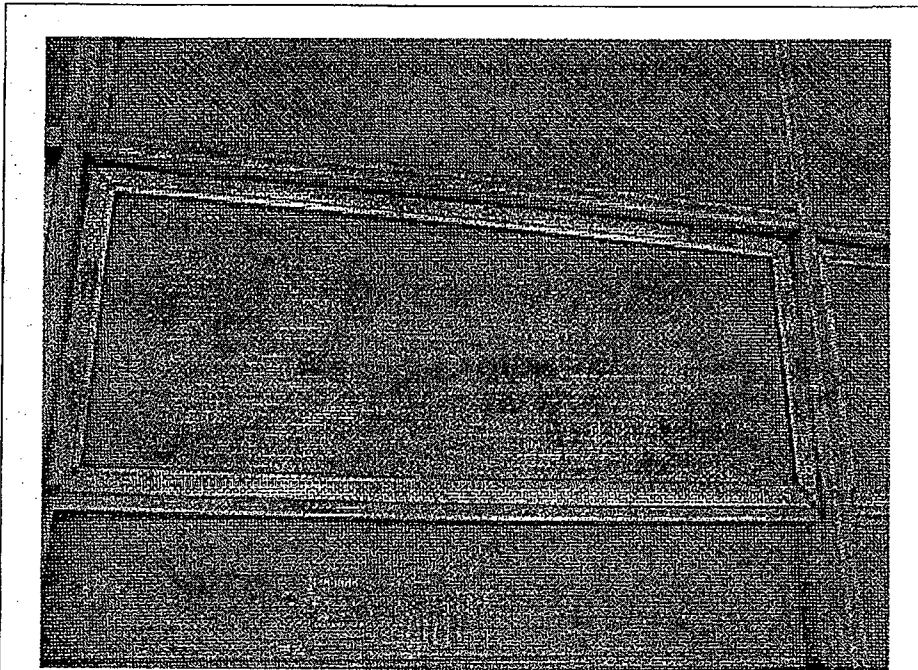


Figure B2-24: Windows and Louvres – Permanently fixed glazing on the curtain wall tower windows suffering fixing corrosion.

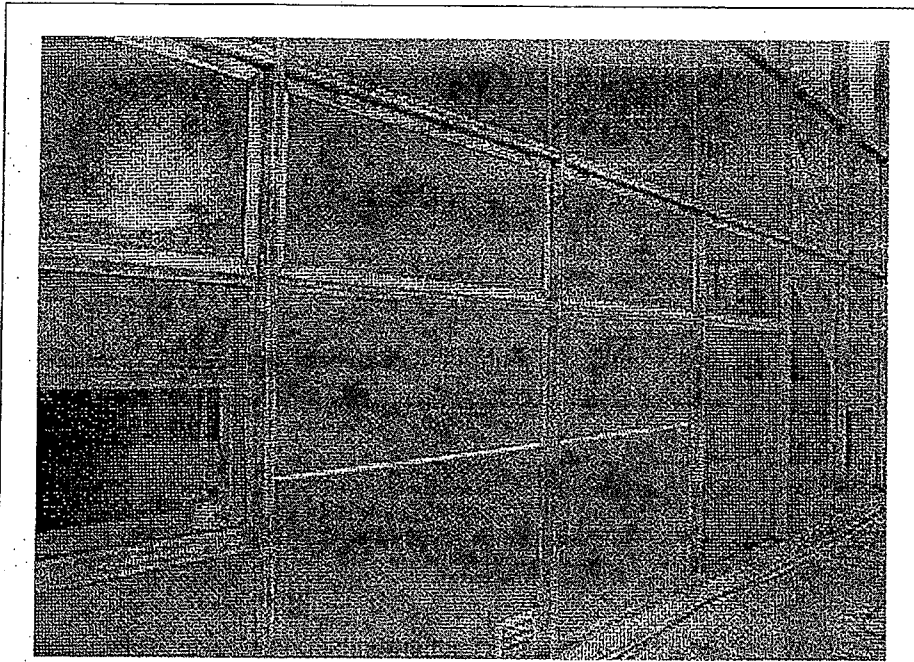


Figure B2-25: Windows and Louvres – Permanently fixed glazing on the curtain wall tower windows suffering fixing corrosion.

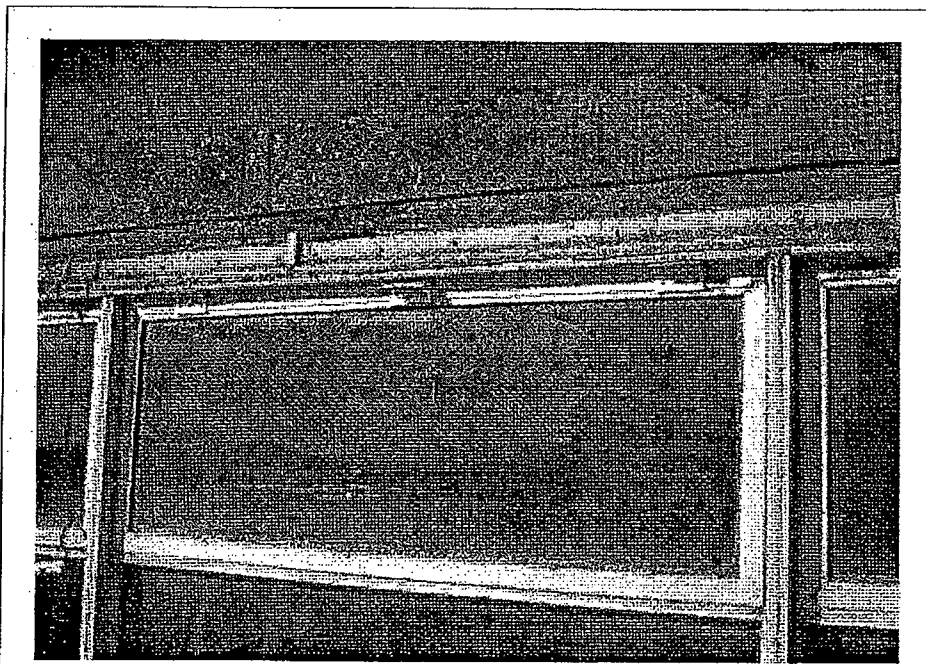


Figure B2-26: Windows and Louvres – Triple hinged sash held by only two hinges on the curtain wall tower. Note excessive use of silicone.

B3 Sunshades

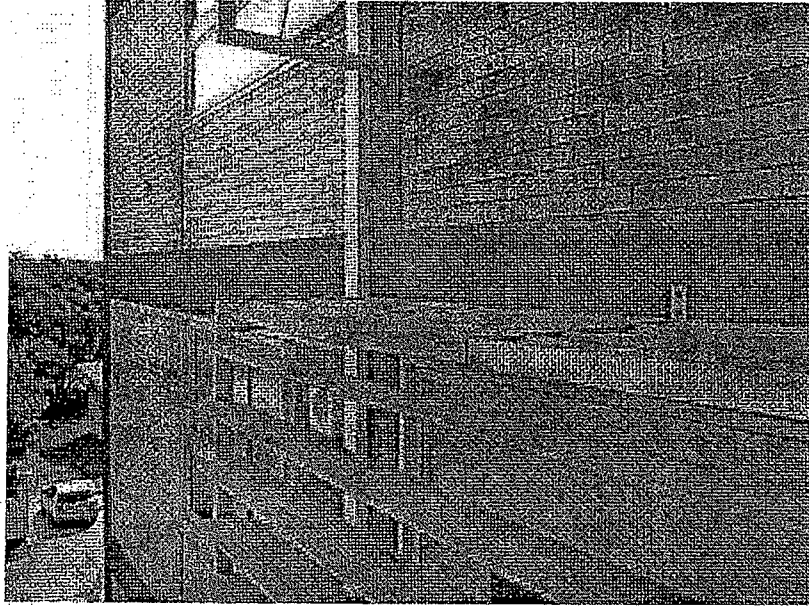


Figure B3-1: Sunshades – Damaged and corroded sunshade systems.



Figure B3-2: Sunshades – Loose and corroded sunshade louvre systems.

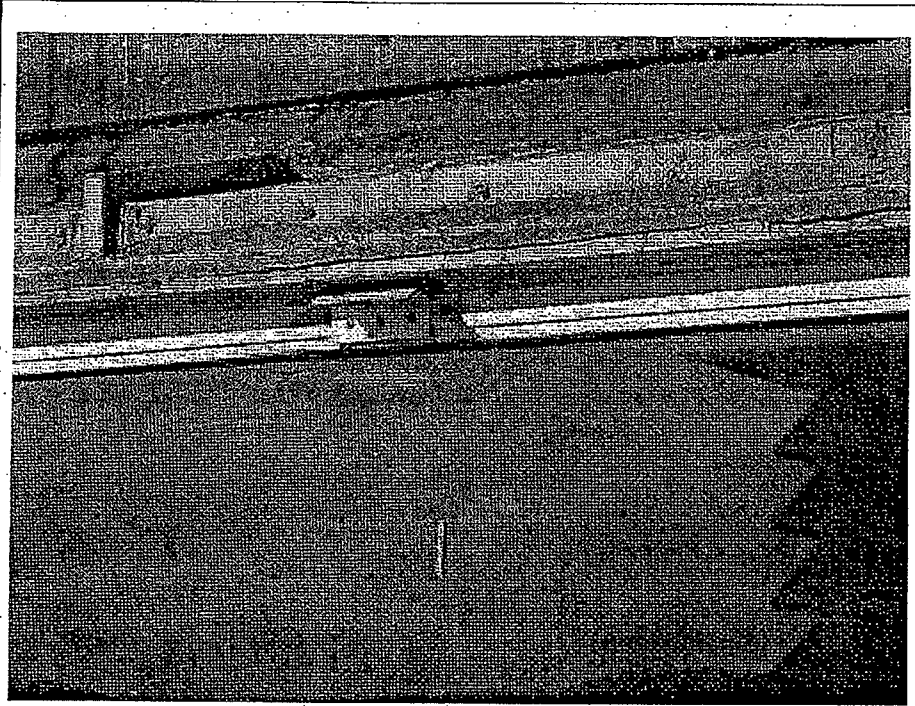


Figure B2-27: Windows and Louvres – Triple hinged sash held by only two hinges on the curtain wall tower. Note excessive use of silicone.



Figure B3-3: Sunshades – Loose and corroded sunshade fixings.

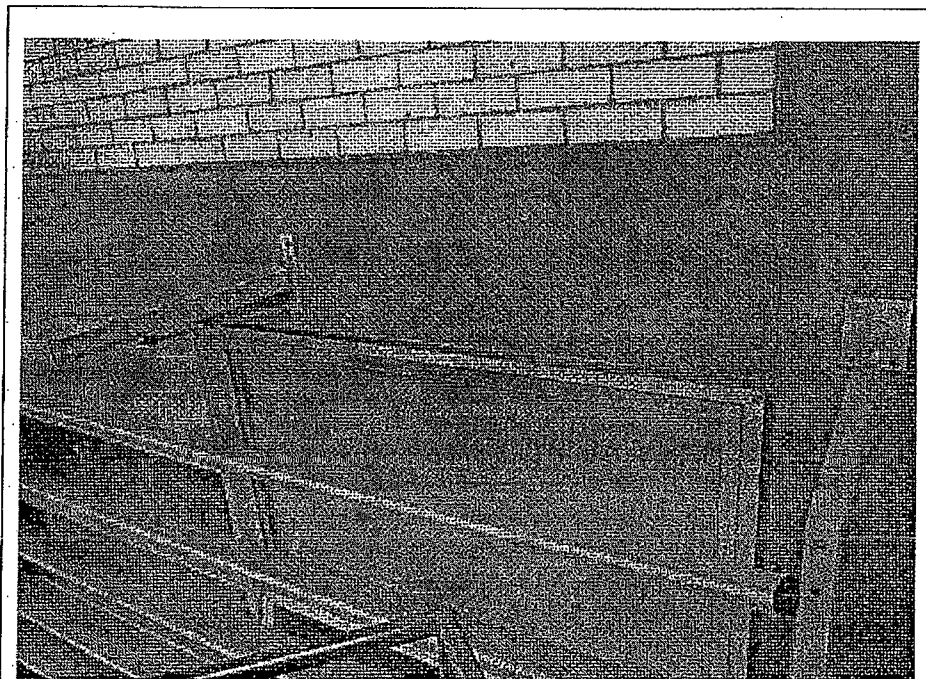


Figure B3-4: Sunshades – Missing sunshade louvre section.



Figure B3-5: Sunshades – Damaged and corroded sunshade systems.

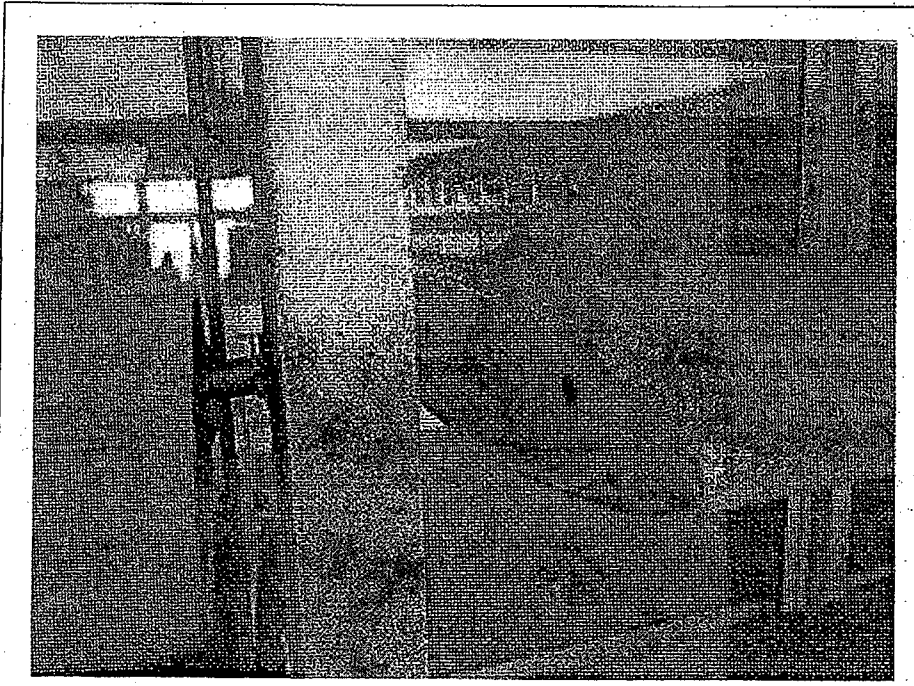


Figure B3-6: Sunshades – Corroded sunshade systems.

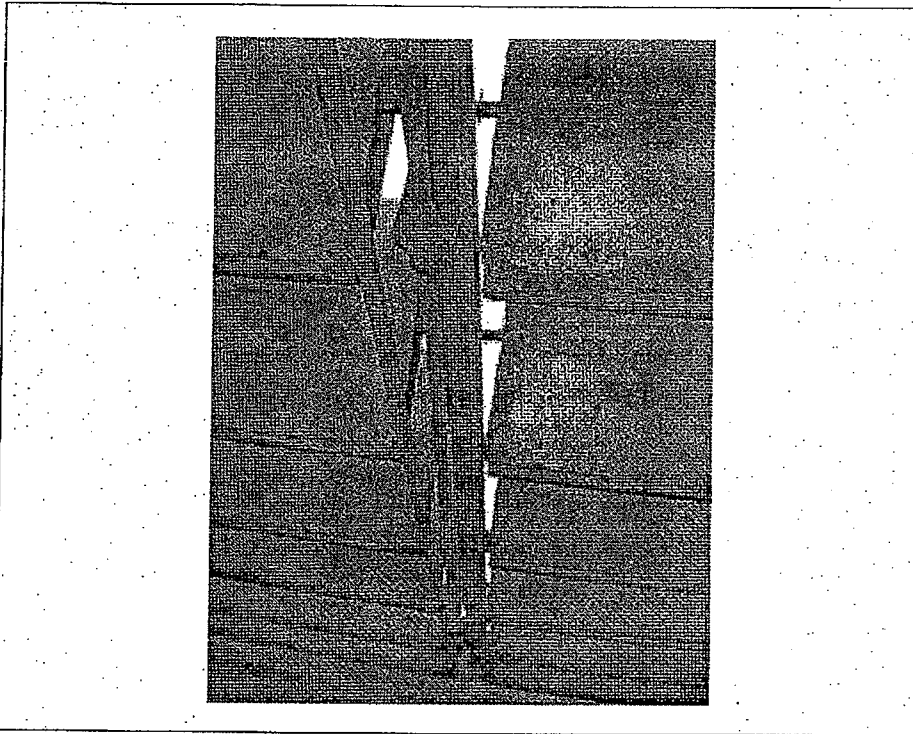


Figure B3-7: Sunshades – Damaged and corroded sunshade systems.

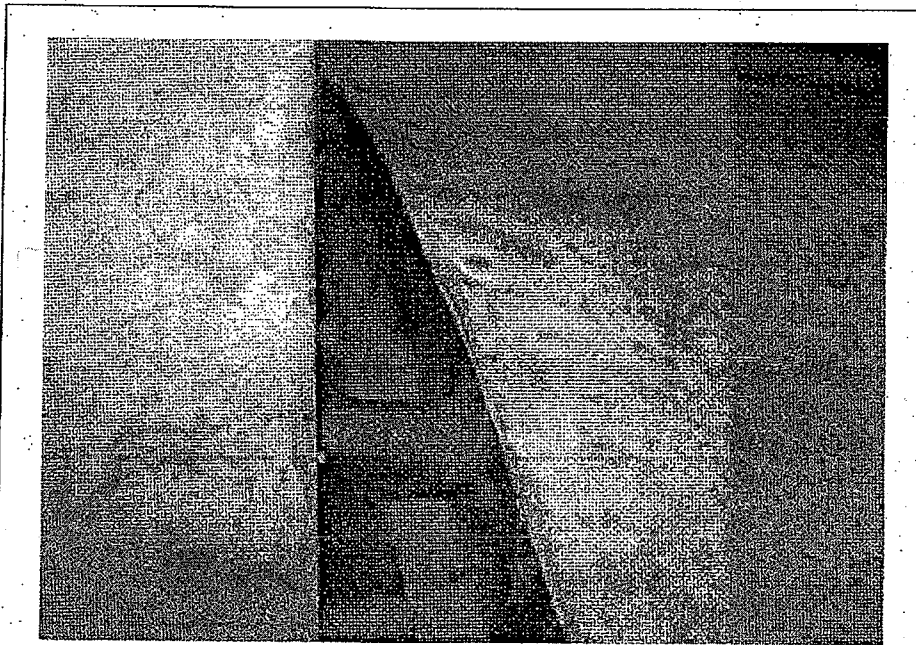


Figure B3-8: Sunshades – Pitted sunshade edges and corroded sunshade fixings.



Figure B3-9: Sunshades – Pitted sunshade edges and corroded sunshade fixings.

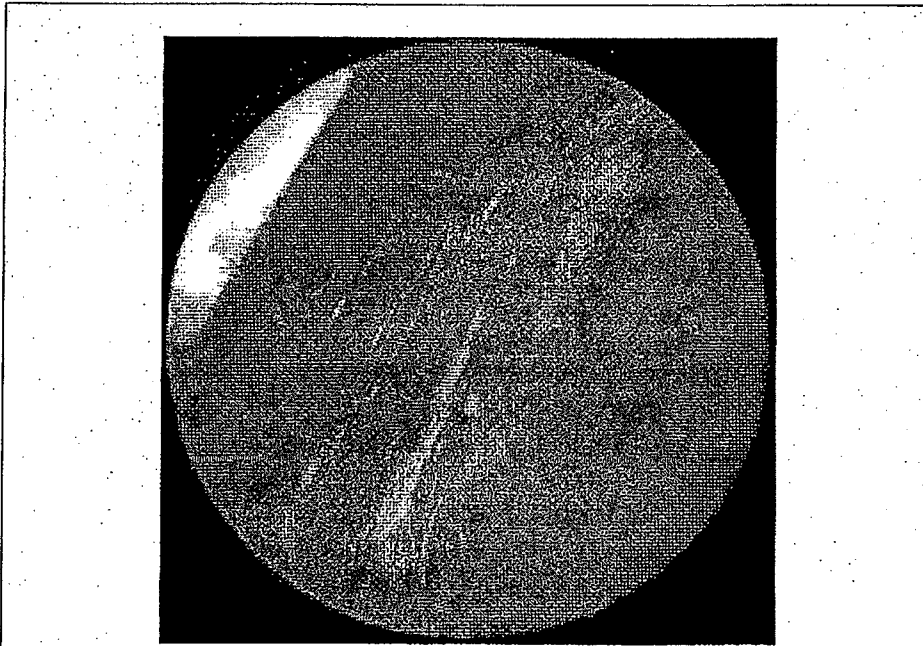


Figure B3-10: Sunshades – Corroded internal sunshade fixings (borescope imaging).

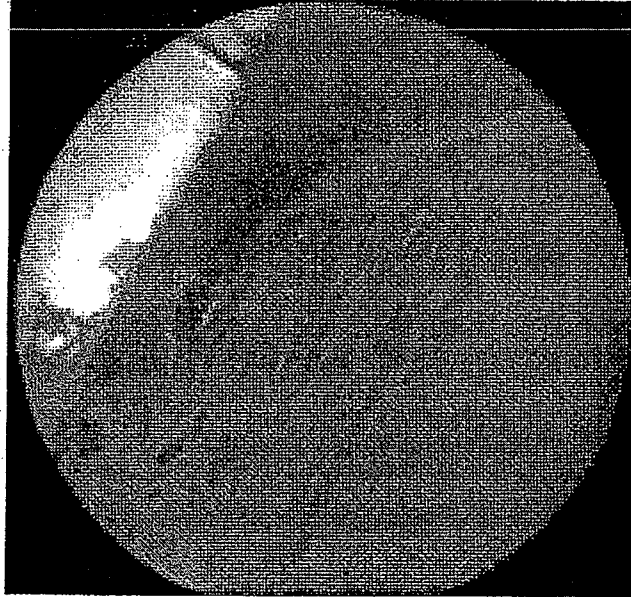


Figure B3-11: Sunshades – Corroded internal sunshade fixings (borescope imaging).

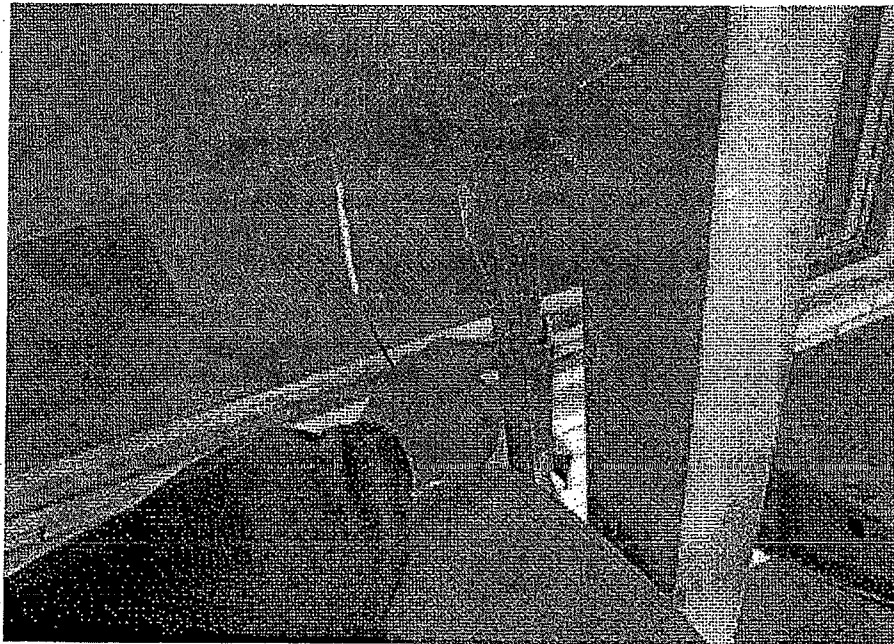


Figure B3-12: Sunshades – Disconnected and non-functional operable louvres.

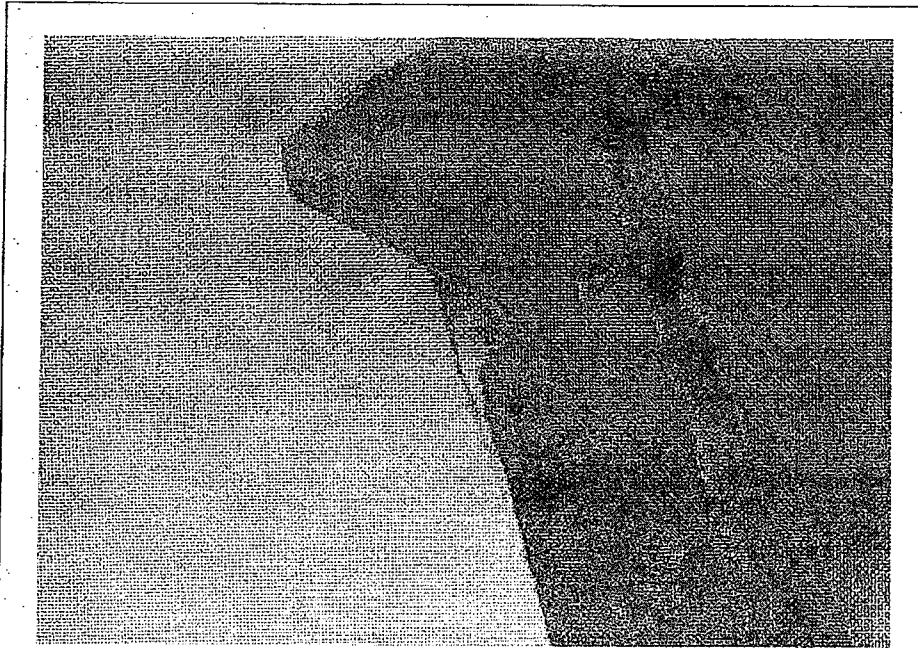


Figure B3-13: Sunshades – Corroded mild steel sunshade fixings.

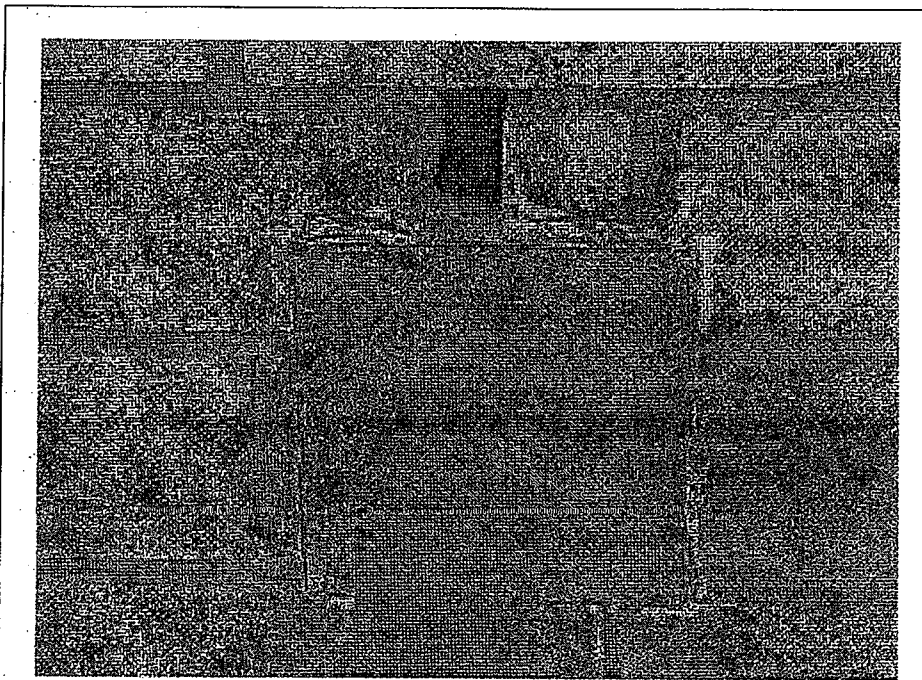


Figure B3-14: Sunshades – Mid span sunshade fixings on poor brickwork.

B4 Rendered Beams and Columns

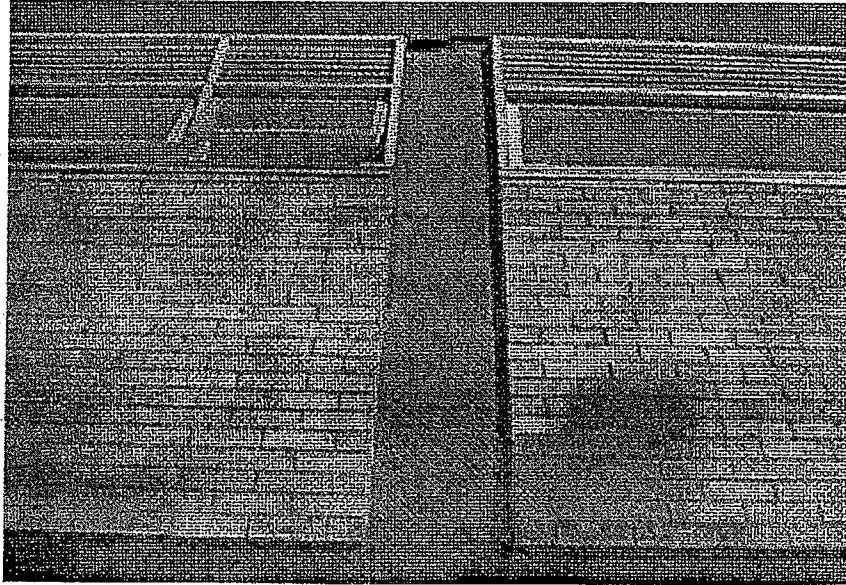


Figure B4-1: Rendered Beams & Columns – Missing render from columns on the northern wing.

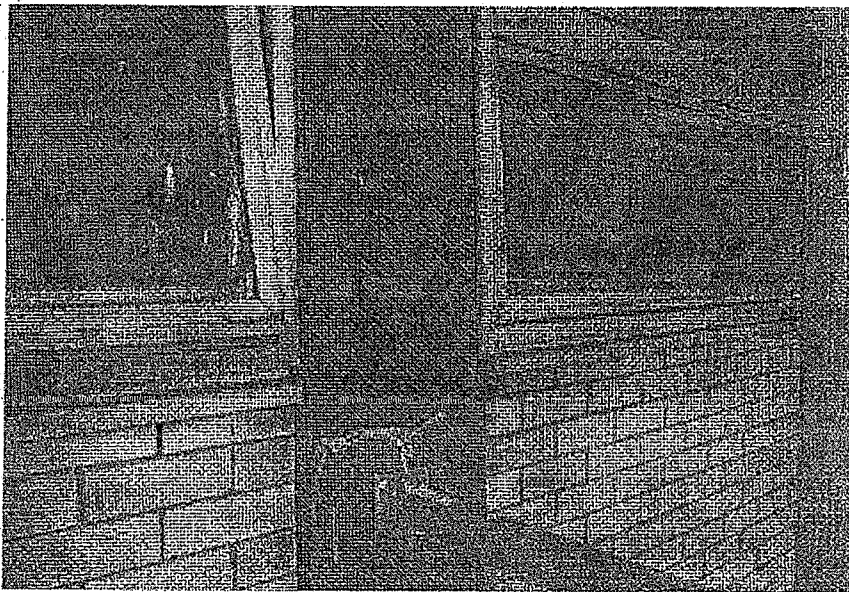


Figure B4-2: Rendered Beams & Columns – Damaged render columns on the northern wing.

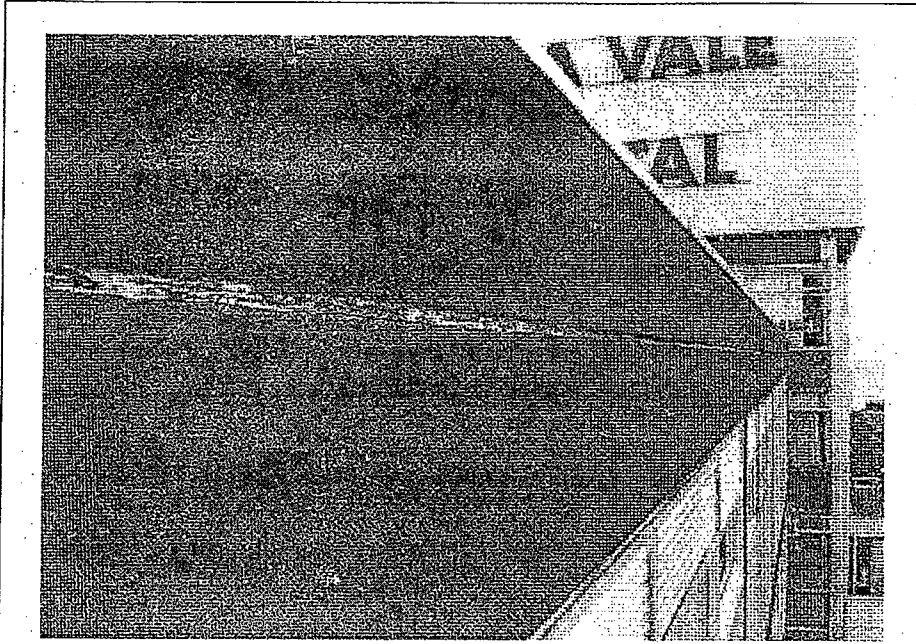


Figure B4-3: Rendered Beams & Columns – Pinned rendered beams on the western wing.

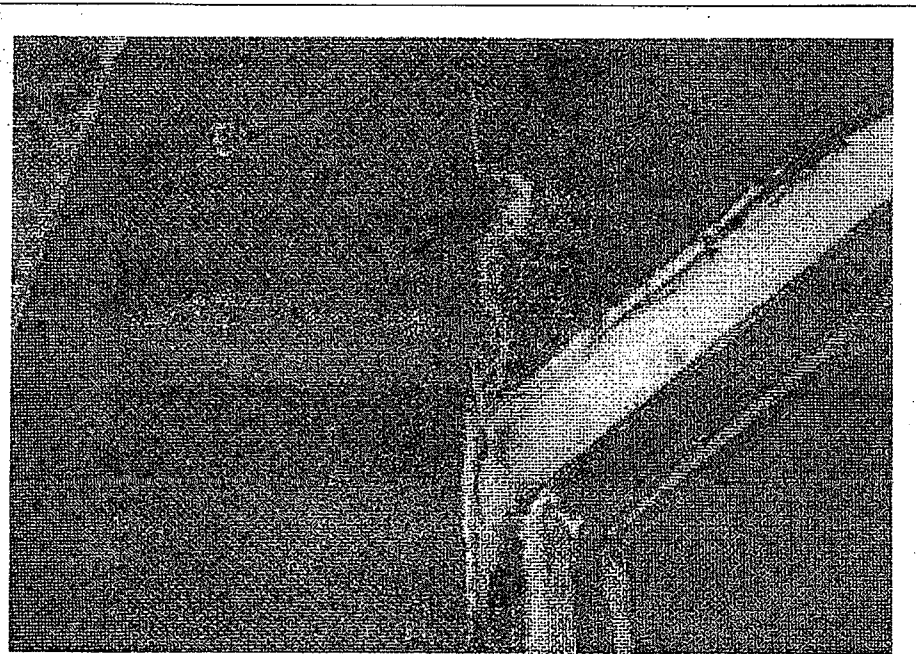


Figure B4-4: Rendered Beams & Columns – Damaged render columns

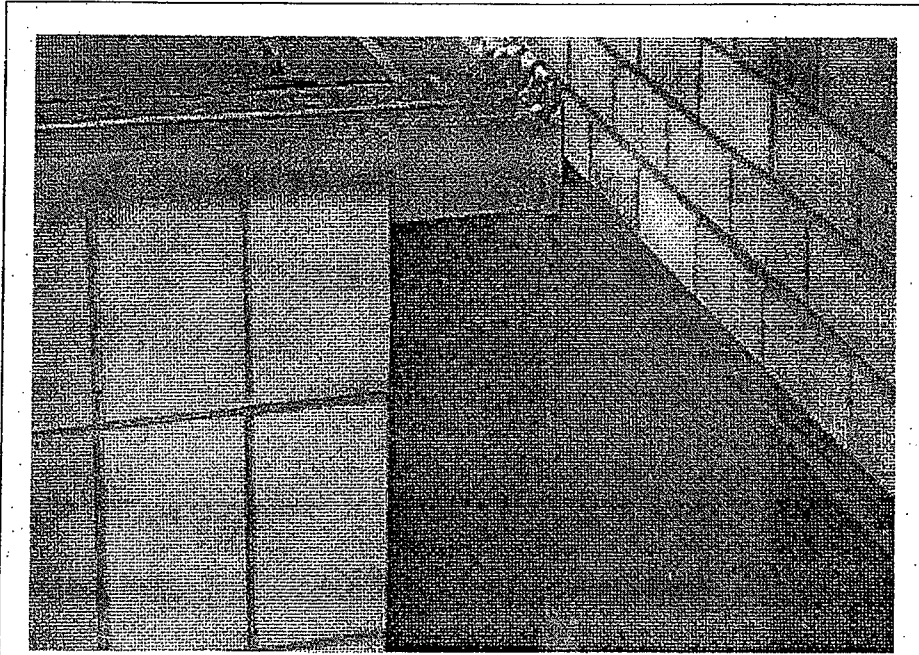


Figure B4-5: Rendered Beams & Columns – Damaged render columns on the western wing.



Figure B4-6: Rendered Beams & Columns – Damaged render columns on the northern wing.



Figure B4-7: Rendered Beams & Columns – Damaged render columns.



Figure B4-8: Rendered beams & columns – Damaged rendered

columns.

B5 Roof Areas

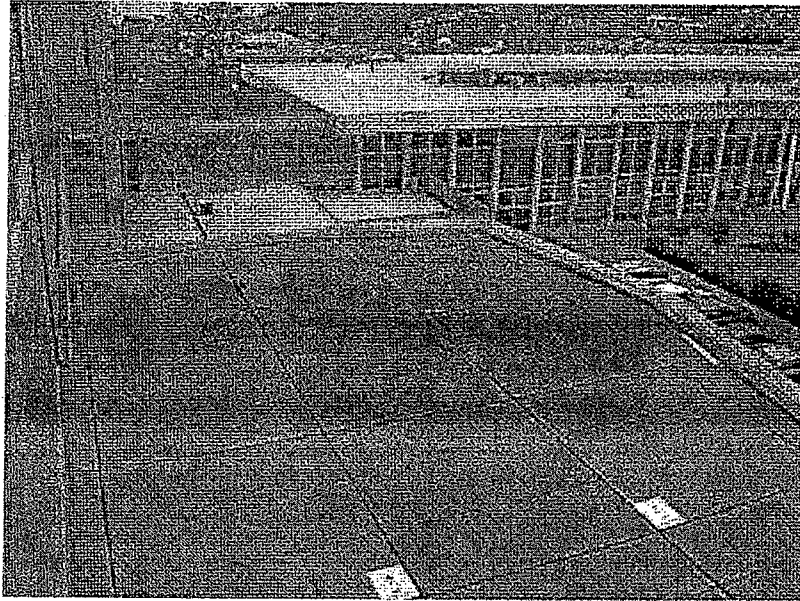


Figure B5-1: Roof areas – Roofing of the south elevation western wing.



Figure B5-2: Roof areas – Patched areas of nuralite membrane on the northern wing.

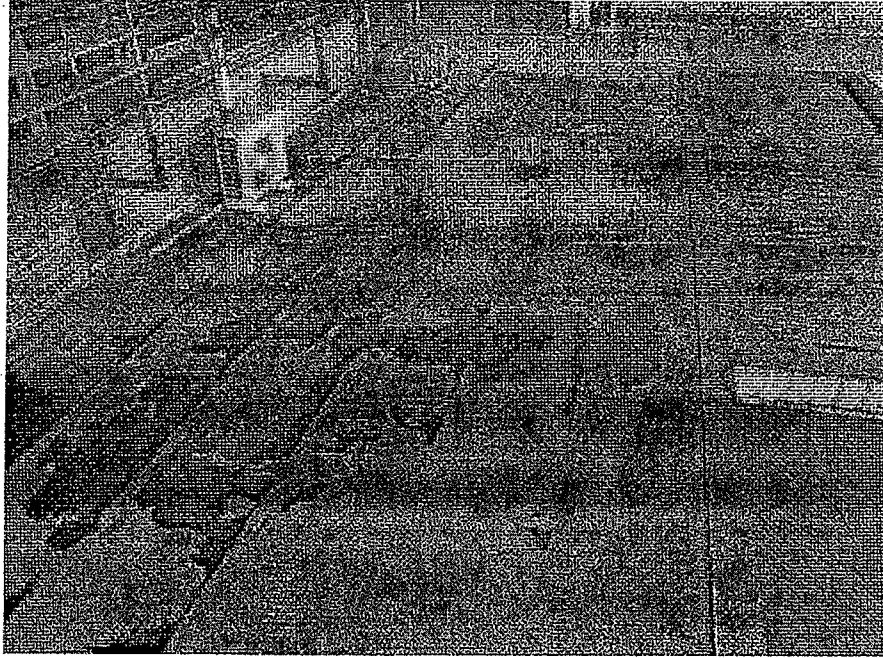


Figure B5-3: Roof areas – Water pooling on the lower roof of the western elevation of the northern wing.



Figure B5-4: Roof areas – Water pooling on the lower roof of the western elevation of the northern wing.



Figure B5-5: East wing: Severe corrosion present on roof sheeting of the western wing likely due to bimetallic action.

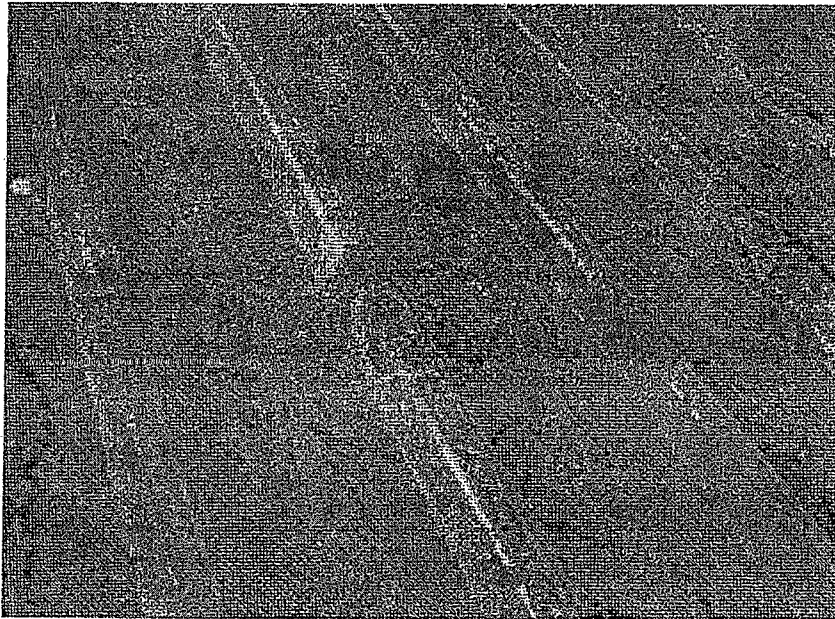


Figure B5-6: Corrosion spots on roof sheeting on the western wing likely due to bimetallic action. Note corroding fixings.



Figure B5-7: Roof areas – Damaged parapet capping on the western wing.

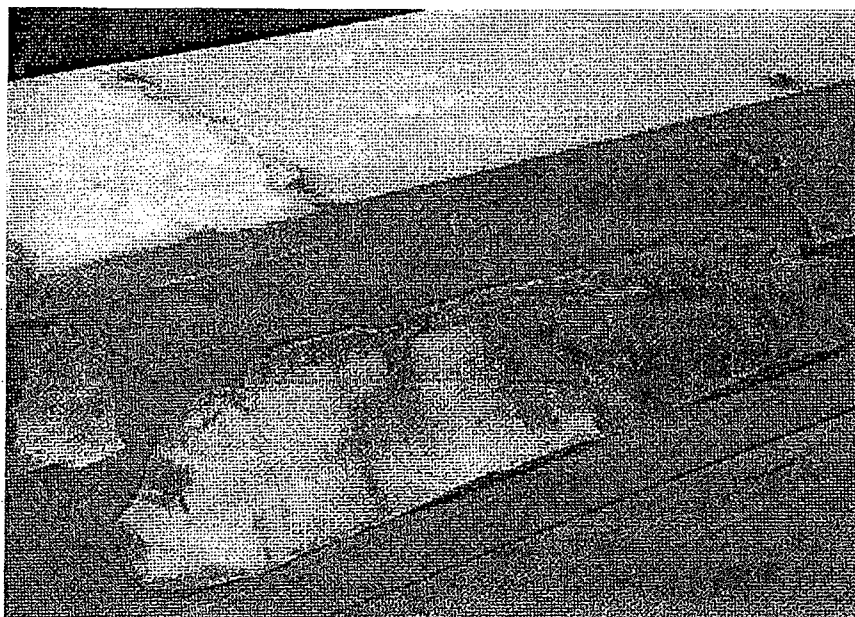


Figure B5-8: Roof areas – Displaced and damaged flashing on the western wing.

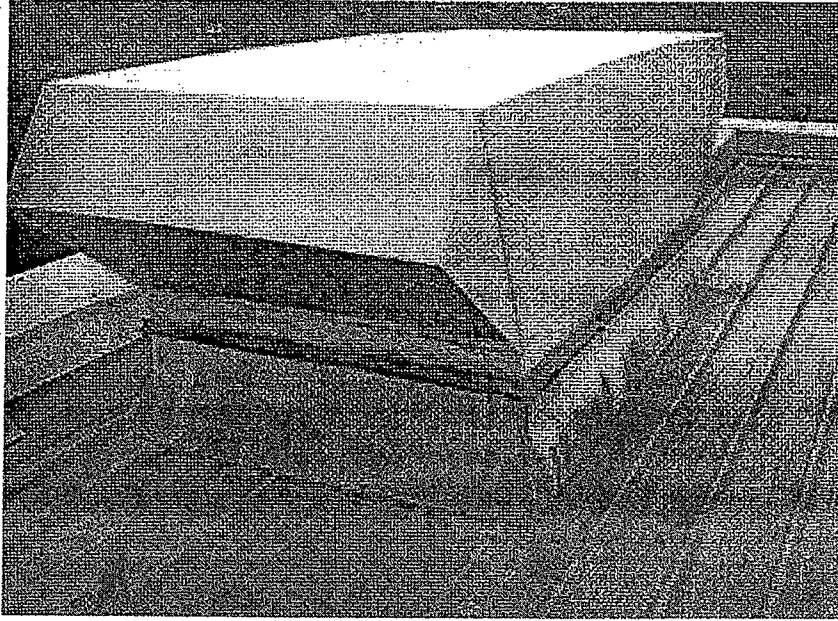


Figure B5-9: Roof areas – Surface corrosion of exhaust ducting on the western wing.

